MARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Service Manual

Sec.1 Operating Instructions

AJ-D250P

Digital Video Cassette Recorder

Sec.2 Service Information

Sec.3 Disassembly Procedures/Maintenance &

Mechanical Parts Replacement

Sec.4 Electrical Adjustments

Sec.5 Block Diagrams

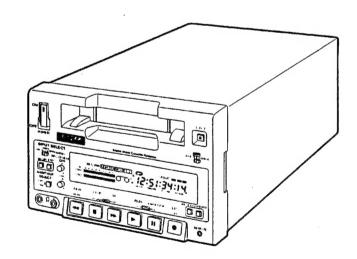
Sec.6 Schematic Diagrams

Sec.7 Circuit Board Diagrams

Sec.8 Exploded Views &

Replacement Parts List





Specifications

[GENERAL]

Supply voltage:

120 V AC, 50 - 60 Hz

Power consumption: 56 W

Ambient operating temperature:

41°F to 104°F (5°C to 40°C)

Ambient operating humidity:

35% to 80% (no condensation)

Weight:

14.3 lb (6.5 kg)

Dimensions (W \times H \times D):

8 7/16"×5 1/4"×15 7/16" (214×132×391 mm)

Recording format:

DVCPRO format

Recording tracks

Digital video/audio

recorded in sub-code area Time code:

Digital audio: 2 channels Cue signal:

1 track

Control (CTL): 1 track

Tape speed:

33.820 mm/sec.

Recording time:

184 minutes (when an AJ-5P92LP is used *) 66 minutes (when an AJ-P66MP is used)

*For AJ-5P92LP cassette tapes, use a VTR supporting DVCPRO (25 Mbps) 184 minute tapes.

Tape used:

1/4" thin magnetic layer metal tapes

FF/REW time:

Less than 5 min. (using an AJ-5P92LP tape)

[VIDEO]

■Digital video

Sampling frequency:

Y: 13.5 MHz, P_B/P_R: 3.375 MHz

Quantizing:

8 bits

Error correction:

Reed-Solomon product code

■Analog composite IN/OUT

Video band:

Y: 30 Hz to 4.5 MHz (0 ±1 dB)

Y/C delay:

Less than 20 ns

K factor:

Less than 2%

■Input connectors

Line input:

BNC×1, 1.0 V_{P-P} , 75 Ω

REF VIDEO input:

BNC \times 1, 1.0 V_{P-P}, 75 Ω

S-VIDEO:

4P×1. Y: 1.0 V_{P-P} , 75 Ω

C: $0.286 \text{ V}_{\text{P-P}}$, 75Ω (burst level)

■Output connectors

Line output:

BNC×1, 1.0 V_{P-P} , 75 Ω

Monitor output:

BNC \times 1, 1.0 V_{P-P}, 75 Ω

S-VIDEO:

4P×1. Y: 1.0 V_{P-P} , 75 Ω

C: 0.286 V_{P-P} , 75 Ω (burst level)

Specifications

[AUDIO]

■Digital audio

Sampling frequency:

48 kHz

Quantizing:

16 bits

Frequency response:

20 Hz to 20 kHz (0 +1.0 dB, -2.0 dB)

Dynamic range:

More than 85 dB

(1 kHz, emphasis OFF, "A" weighted)

Distortion:

Less than 0.1%

(1 kHz, emphasis OFF, reference level)

Crosstalk

Less than -80 dB (1 kHz, between 2 channels)

■Input connectors

Line input (CH1/CH2):

PHONO \times 2, -8 dBV, 47 k Ω

■Output connectors

Line output (CH1/CH2):

PHONO \times 4, -8 dBV, 1 k Ω

Headphones output:

M3 stereo, variable level (max. -32 dBV or more), 8 Ω

[OTHER INPUT/OUTPUT CONNECTORS]

RS-232C:

D-sub, 25 pins, RS-232C interface

Wired remote control:

M2 jack (simple remote control)

[DISPLAY TUBE]

Counter:

8 digits (CTL/TC/UB display switching, remaining tape)

Audio level meter:

18 steps

Other:

REC/REC INH, REMOTE, WIDE, consumer-use cassette insertion display, REPEAT, SERVO, channel condition, cassette insertion display

Weight and dimensions shown are approximate. Specifications are subject to change without notice.

SAFETY PRECAUTIONS

ENERAL GUIDELINES

When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.

After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are property installed.

After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

EAKAGE CURRENT COLD CHECK

- Unplug the AC cord and connect a jumper between the two prongs on the plug.
- Measure the resistance value, with an ohm meter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between $1M\Omega$ and $5.2M\Omega$. When the exposed metal does not have a return path to the

When the exposed metal does not have a return path to the chassis, the reading must be ∞ .

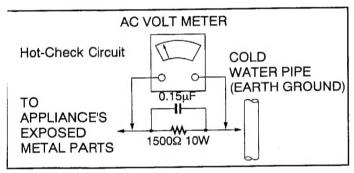


Figure 1

_EAKAGE CURRENT HOT CHECK (See Figure 1)

- Plug the AC cord directly into the AC outlet.
 Do not use an isolation transformer for this check.
- 2. Connect a 1.5k Ω , 10W resistor, in parallel with 0.15 μ F capacitor, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
- Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
- Check each exposed metallic part, and measure the voltage at each point.
- Reverse the AC plug in the AC outlet repeat each of the above measurements.
- 6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 millilamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

ELECTROSTATICALLY SENSITIVE (ES) DEVICES

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

- Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
- After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- Use only a grounded tip soldering iron to solder or unsolder ES devices.
- Use only an anti-static solder removal device classified as "antistatic" can generate electrical charges sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
- Immediately before removing the protected material from the leads of replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
 - CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
- Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwize harmless mother such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device).

X-RADIATION

WARNING

- 1. The potential source of X-Radiation in EVF sets is the High Voltage section and the picture tube.
- When using a picture tube test jig for service, ensure that jig is capable of handling 10kV without causing X-Radiation.
- NOTE: It is important to use an accurate periodically calibrated high voltage meter.
- Measure the High Voltage. The meter (electric type) reading should indicate 2.5kV, ±0.15kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure. To prevent an X-Radiation possibility, it is essential to use the specified picture tube.

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SECTION 1

OPERATING INSTRUCTIONS

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The AJ-D250 is a digital VTR which uses 1/4" wide tapes. The incorporation of digital compression technology ensures that the deterioration in picture and sound quality suffered during dubbing will be much less than with conventional analog systems.

7 1.

The model has a compact and lightweight design, enabling it to be readily carried about or easily installed in a

The interactive system, which is featured for the unit's settings, enables these settings to be performed while viewing the menus on the TV monitor screen.

The model AJ-D250 comes with an RS-232C connector which makes it possible to control the editing operations and exercise remote control from a computer using the RS-232C remote control (AJ-A250 - available as an optional accessory).

Features

Compact and light

This unit is 8 7/16" (214 mm) wide, 5 1/4" (132 mm) high and 15 7/16" (391 mm) deep, and weighs 14.3 lb (6.5 kg). It is equipped with grips so that it can be carried easily.

Assemble editing and insert editing

Using the RS-232C remote control (AJ-A250 available as an optional accessory), two units-one a player and the other a recorder-can be controlled directly from the remote control to perform editing operations.

Encoder control

The video output signals can be adjusted using the items on the setup menus.

2-channel digital audio with high sound quality

RS-232C control

Use of the RS-232C remote control (AJ-A250 available as an optional accessory) enables not only editing operations to be performed but remote control can also be exercised, from a computer by connecting the RS-232C cable between from the computer and

Up to 184 minutes of recording

The unit uses two types of cassette tapes: one for news gathering (max. 66 minutes) and the other for general-purpose applications (184 minutes: using AJ-5P92LP *).

The unit's compact design accommodates tapes with a 1/4" width.

*For AJ-5P92LP cassette tapes, use a VTR supporting DVCPRO (25 Mbps) 184 minute tapes.

Compatible with consumer-use equipment

Using the cassette adapter (AJ-CS750P: optional accessory), consumer-use cassette tapes shot using a consumer-use digital camera can be played back on this unit. The LP mode is not supported.

Time codes

The unit comes with a built-in time code generator (TCG)/time code reader (TCR).

Repeat playback

Any section on a tape can be played back repeatedly for an unlimited number of times or one time only.

Menu-driven setup

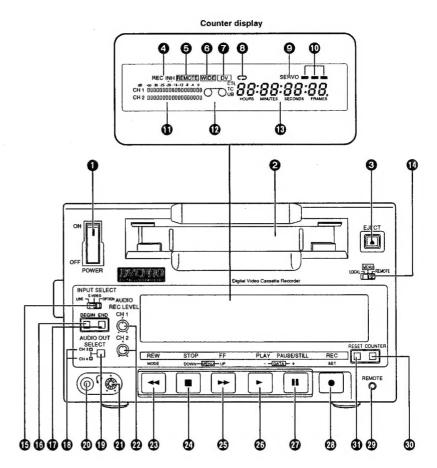
The unit's settings are performed using an interactive system while viewing the menus on the TV monitor screen.

Remote control

The unit can be operated from distances up to 5 meters away when the AG-A11 remote control (optional accessory) is connected.

Parts and Their Functions

Front panel



Front panel

POWER switch

When the ON side is pressed, power is supplied to the unit, and the counter display is illuminated

@Cassette insertion slot

News gathering cassettes, general-purpose cassettes and consumer-use cassettes accompanied by the adapter are inserted into this slot. Consumer-use cassettes can be used for playback only.

@ EJECT button

When this button is pressed, the tape is unloaded, and a few seconds later it is automatically ejected. If the counter display is set to the CTL display, the display will be reset.

@ REC/REC INH lamp

REC: The lamp lights during recording.

REC INH: The lamp lights when the accidental cassette erasure prevention status is established

> It also lights when "ON" is selected as the "REC INHIBIT" setting on the setup

Recording cannot be conducted while this lamp is lighted.

GREMOTE lamp

This lamp lights when the LOCAL/MENU/REMOTE switch has been set to REMOTE.

WIDE lamp

This lamp lights in the 16:9 wide screen mode.

Consumer-use cassette insertion lamp

This lamp lights when a cassette recorded using a consumer-use DV device has been inserted.

@ REPEAT lamp

This lamp lights during repeat playback.

O SERVO lamp

This lamp lights when the drum servo and capstan servo are locked.

@Channel status lamps

One of these lamps lights depending on the error rate status. (Green → Blue → Red)

Green: This lamp lights when the error rate for both the video and audio playback signals is at an acceptable level.

Blue: This lamp lights when the error rate for either the video or audio playback signals has deteriorated. A normal playback picture appears even when the lamp is lighted.

Red: This lamp lights when either the video or audio playback signals have become subject to correction or interpolation.

(1) Level meter

This indicates the levels of the audio signals.

During recording or E-E selection, it indicates the audio input signal levels; during playback, it indicates the audio output signal levels.

Cassette insertion lamp

This lamp lights when a cassette has been inserted into the unit.

(A) Counter display

The time codes. CTL count values and on-screen information and other messages appear on this

10 LOCAL/MENU/REMOTE switch

This switch is set when the menu settings are to be performed or when the unit is to be controlled from an external source.

LOCAL: Set here when the unit is to be controlled using the controls provided on the unit's operation panel.

Set here when the on-screen menu items are to be set.

REMOTE: Set here when the unit is to be controlled using the RS-232C interface or other external control device.

@INPUT SELECT switch

This is used to select the input signals.

LINE: Set here to record the signals which are supplied to the video signal input connector

S-VIDEO: Set here to record the signals which are supplied to the S-VIDEO input connector.

OPTION: Set here to supply video and audio signals from the optional board and record them.

@ BEGIN button

This button sets the start point for repeat playback and it indicates the start point which is currently entered.

© END button

This button sets the end point for repeat playback and it indicates the end point which is currently entered.

⊕ CH3/CH4 lamps

These lamps light when the audio signals have been set to CH3 and CH4 during DV format playback.

@ AUDIO OUT SELECT button

This button selects the audio signals which are to be output.

Parts and Their Functions

@ Headphones jack

When headphones are connected to this jack, they can be used to monitor the sound being recorded or played back.

Volume control

This is used to adjust the volume to the headphones.

@ Audio recording level controls

These controls are used to adjust the recording level for PCM audio signals CH1 and CH2.

@ REW button

When this button is pressed, the tape is rewound. and the playback pictures can be monitored if "TAPE" has been selected for the "S/F/R EE SEL" setup menu item setting.

@STOP button

When this button is pressed, the tape stops traveling, and the still picture can be monitored when the "TAPE" setting has been selected for the "S/F/R EE SEL" setup menu item.

In the stop mode, the drum still continues to rotate. and the tape remains tightly wrapped around the

When the designated period of time has elapsed in the stop mode, the unit is automatically set to the standby OFF mode in order to protect the tape.

@FF button

When this button is pressed, the tape is fastforwarded, and the playback pictures can be monitored if "TAPE" has been selected as the "S/F/R EE SEL" setup menu item setting.

@ PLAY button

When this button is pressed, playback is

Recording is commenced when it is pressed together with the REC button.

@PAUSE/STILL button

When this button is pressed during recording. recording is stopped temporarily. When it is pressed again, recording is resumed.

When this button is pressed during playback, the still picture mode is established. When it is pressed again, playback is resumed.

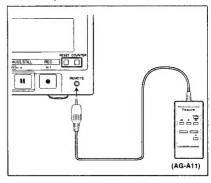
@ REC button

Recording is commenced when this button is pressed together with the PLAY button. When it is pressed during playback or in the STOP mode or standby OFF mode, the REC CHECK mode is established. (See page 15)

@ REMOTE connector

When the remote control (AG-A11) is plugged into this connector, the unit can be operated at a distance using the controls on the remote control instead of the unit's function buttons.

Keep the LOCAL/MENU/REMOTE switch at the REMOTE position.



⊕ COUNTER button

This button is used to switch the counter display. CTL: Set here to display the tape timer (control

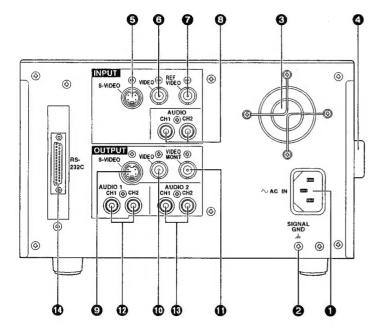
TC: Set here to display the time code. UB: Set here to display the user's bit.

Remaining tape:

Set here to display the amount of remaining

@ RESET button

When this button is pressed in the CTL mode, the counter display is reset to 00:00:00:00.



Parts and Their Functions

Connector panel

O AC IN socket

Plug one end of the unit's power cord into this power socket.

② SIGNAL GND terminal

In order to reduce noise, connect this terminal to the signal grounding terminal on one of the devices to which the unit is connected. This is not a safety ground.

@Fan motor

This motor is used to cool the unit.

@ Grip

This grip is fitted on the side panel. When operating the unit, however, place the unit flat on its bottom surface.

S-VIDEO IN connector

The S-VIDEO video signals are supplied to this connector.

VIDEO IN connector

The analog video signals are supplied to this connector.

REF VIDEO IN connector

This is connected to the reference video signal when the unit is to be synchronized with the reference sync signals of an external unit during playback.

@ AUDIO IN connectors

The analog audio signals are supplied to this connector.

© S-VIDEO OUT connector

The S-VIDEO video signals are output from this connector.

(b) VIDEO OUT connector

The analog video signals are output from this connector.

MONITOR OUT connector

The video monitor signals are output from this connector. Superimposed video signals can be output.

@ AUDIO 1 OUT connectors

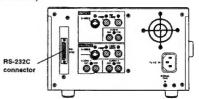
The analog audio signals are output from this connector.

AUDIO 2 OUT connectors

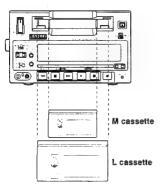
The analog audio signals are output from this connector.

RS-232C connector

Editing operations can be conducted speedily and efficiently by connecting the RS-232C remote control (AJ-A250 - available as an optional accessory) to this connector. Various operations can be performed from a computer by using the RS-232C cable which is available as an optional accessory.



Tape	Description
Consumer-use cassettes (S cassette)	These tapes are designed to be used exclusively with consumer-use camera recorders. They can be used only for playback on this unit and only with the cassette adapter (optional accessory). Long-playing tapes (80 min. in standard mode, 120 min. in LP mode) cannot be used with this unit. It is recommended that Panasonic brand consumer-use DV tapes be used. Remember that inserting a cassette tape without using the cassette adapter can cause malfunctioning.
M cassettes	Tapes with up to 66 minutes of recording/playback time (AJ-P12MP, AJ-P24MP, AJ-P33MP, AJ-P46MP, AJ-P66MP)
L cassettes	Tapes with up to 184 minutes of recording/playback time (AJ-P34LP, AJ-P66LP, AJ-P94LP, AJ-P126LP, AJ-5P92LP*) *For AJ-5P92LP cassette tapes, use a VTR supporting DVCPRO (25 Mbps) 184 minute tapes.



Align the cassette with the center of the insertion slot, and push it in gently.

The cassette tape is loaded automatically.

<Checkpoints for consumer-use DV tape playback>

- · Consumer-use DV tapes can be used for playback only.
- · Consumer-use tapes recorded in the LP mode cannot be played back.
- Recording onto consumer-use tapes is not possible, therefore the recording-related functions are inhibited.
- The maximum speed at which consumer-use tapes can be forwarded or reversed is 32 times normal tape speed.
- The still pictures of consumer-use tapes are subject to disturbance.
- In the interest of protecting the tapes, it is recommended that consumer-use tape cue-up be kept to the minimum extent possible.
- The maximum time for the STILL TIMER when a consumer-use tape is used has been set to 10 seconds.
- When the unit has been left standing in the STILL mode, the standby OFF (half loading) mode will be established after one minute has elapsed.
- During consumer-use tape search and still picture operations, a display indicating that the time code cannot be read may appear.

Operation

Turning on the power/inserting a cassette

Before proceeding to operate the unit, make sure that the unit has been connected properly.

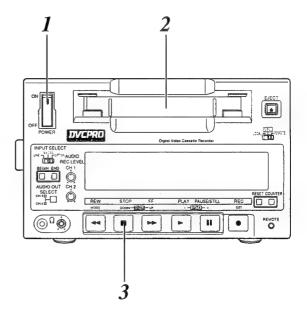
 $m{1}$ Turn on the unit's power.

2 Insert the cassette tape.
Insert it at the prescribed position without forcing it in any way.

3 Check that the STOP lamp is lighted.

When the tape is inserted, the cylinder starts rotating automatically, the tape is loaded, and the STOP mode is established.

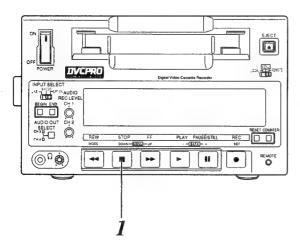
It is possible to change the mode when a tape is inserted using the settings in Item No. 104 "TAPE IN MOD" of the Setup menu. (See page 29)



 In order to protect the tape, the tape protection mode will be established when the time selected for the "STILL TIMER" setup menu item setting has elapsed. (See page 31)
 When the STOP, REW, FF or PLAY button is pressed, the corresponding mode will be established.

<Checkpoint for STILL TIMER setting>

 Repeatedly using the same locations on the same tape will increase the cumulative standby time at those locations. In the interest of protecting the tape, keep the standby times at the same locations as short as possible.



Recording

- 1 Set the accidental erasure prevention tab on the cassette tape to "recording," and insert the tape.
- Press the STOP button to set the unit to the STOP mode.
- $oldsymbol{3}$ Check that the REC INH lamp has gone off.
- $m{4}$ Selecting the video and audio input signals and adjusting the audio levels
 - 4.1 Selecting the video and audio input signals
 - I Connect the signals which are to be recorded.
 - 2 Select the input signals using the INPUT SELECT switch on the front panel.
 - 4-2 Adjusting the audio levels
 - Adjust the levels of the audio input signals.

The audio signals are recorded at the proper levels when the level controls are at their center-click positions.

- 5 Press the PLAY button while holding down the REC button.
 The REC and PLAY lamps light and recording commences.
- Press the STOP button to end the recording.
 The recording now ends, and the STOP mode is established.

<Notes>

- If recording prevention signals are included among the input signals, the input signals will not be recorded properly.
- Check that the SERVO lamp has lighted during recording. The image which is played back will be disturbed if the lamp is flashing or off.

Pause/record (frame-to-frame continuity)

Press the PAUSE/STILL button while the cassette tape is playing. When ON has been selected as the AUTO BACK setup menu item setting, the tape will be rewound for about 2 seconds starting from the position where the PAUSE/STILL was pressed. (See page 29)

Press the REC button to set the unit to the REC PAUSE mode. The monitor display now switches to the E-E screen.

Press the PAUSE/STILL button to commence recording.
The tape travels to the position where the PAUSE/STILL was pressed in step / above, and recording commences.
<Note>
The E-E screen is now displayed.

Playback

Insert the cassette tape.

Press the PLAY button.
Normal playback is now commenced.

Press the STOP button to end the playback. The unit is now set to the STOP mode.

<Note>

Check that the SERVO lamp has lighted during playback. The playback image will be disturbed if the lamp is off or flashing.

Cue/review

Hold down the FF or REW button during playback.

While this button is pressed, the tape will be cued or reviewed at about 10 times the normal tape speed

Normal playback is restored when the button is released.

 When ON has been selected as the SEARCH CUE setup menu item setting, the CUE track sound will be output during cue or review. (See page 34)

Still picture playback

Press the PAUSE/STILL button during playback.

Normal playback is restored when the PAUSE/STILL button is pressed again.

. No sound will be heard during still picture playback.

Operation

Frame by frame advance

When the FF or REW button is pressed during still picture playback, the tape will be advanced forward or backward one frame at a time.

No sound will be heard during frame by frame advance.

Audio switching

The AUDIO OUT SELECT button is used to switch to the desired sound.

By pressing this button, the audio output is switched to the modes in the sequence shown below.

Mode	AUDIO OUT	connectors	Display tube	LED
Mode	CH1 output	CH2 output		
A	CH1	CH2	CH1 CH2	CH3 🖂 CH4 🖂
В	CH1		CH1	CH3 🖂 CH4 🖂
С	CH2		CH2	CH3 🗀 CH4 🗀
D	CH3 CH4		No display	CH3 EL
Ε	CH3		No display	CH3 ■ CH4 □
F	CH4		No display	CH3 ☐ CH4 ■
G	CH1+CH3 CH2+GH4		CH1 CH2	CH3 ■ CH4 ■

The settings in the boxes ([______]) are valid only during DV format 4-channel mode playback.

_-----OFF

Sequence in which the modes are selected $A \rightarrow B \rightarrow C \rightarrow D \rightarrow E \rightarrow F \rightarrow G \rightarrow G$

REC CHECK

By pressing the REC button during playback or in the STOP or STANDBY OFF mode, it is possible to check the audio input signals, time code generator value and the video input signals which have been selected using the INPUT SELECT switch.

REC CHECK during playback

The REC CHECK mode is established while the REC button is held down. Normal playback is restored when the button is released.

• REC CHECK in the STOP or STANDBY OFF mode

The REC CHECK mode is established when the REC button is pressed. To release the mode, press the STOP button.

Repeat playback

Setting the BEGIN and END points [Menu mode]

1 Set the unit to the menu mode (by setting the LOCAL/MENU/REMOTE switch to the MENU position).

2 Select the "BGN PRESET" or "END PRESET" setup menu item, and press the DATA+ button (PAUSE/STILL button) or DATA- button (PLAY button).

(See page 29)

<Note>

It is possible to select whether the BEGIN or END point is to be set or not by operating the DATA+ or DATA- button.

3 Select TC or CTL using the COUNTER button. <Note>

If the RESET button is pressed while the unit is in CTL mode, 00:00:00:00 will be set.

Select the digit to be changed (blinking display) using the UP button (FF button) or DOWN button (STOP button).
The frame digits cannot be selected. They always appear as "00."

5 The value is incremented or decremented using the DATA+ button (PAUSE/STILL button) or DATA- button (PLAY button).

Press the SET button (REC button) upon completion of the settings. The settings are now stored in the memory.

7 Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position.

<Notes>

• "--:--:--" appears on the display when the points have not been set. In this case, repeat playback will start at the beginning of the tape which serves as the BEGIN point and end at the end of the tape which serves as the END point.

When the MODE button (REW button) is pressed instead of the SET button upon completion
of the settings, the time code setting will be canceled.

Operation

Setting the BEGIN and END points [Front panel]

Set the unit to the local mode (by setting the LOCAL/MENU/REMOTE switch to the LOCAL position).

2 When the BEGIN or END button on the front panel is pressed, the current position is set as the BEGIN or END point.

Displaying the BEGIN and END points

1 Set the unit to the remote mode (by setting the LOCAL/MENU/REMOTE switch to the REMOTE position).

When the BEGIN or END button on the front panel is pressed, the BEGIN or END point is displayed while the button is held down.
The settings are not changed.

Setting the repeat playback mode

1 Set the unit to the menu mode (by setting the LOCAL/MENU/REMOTE switch to the MENU position).

2 Select the "MEMORY MODE" setup menu item, and select the repeat playback mode. (See page 29)

Setting	Operation		
OFF	Normal operation		
M-STOP	The tape stops near the BEGIN point when it is fast-forwarded or rewound.		
REPT1	When the tape playback reaches the END point, the tape is rewound to the BEGIN point, where it stops.		
CONT	When the tape playback reaches the END point, the tape is rewound to the BEGIN point and playback is repeated.		

3 Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position.

<Notes

 The picture quality will deteriorate when the same tape is repeatedly played back over and over again. As a general guideline, replace the tape with a new one after about 100 repeat playback operations.

When repeat playback is to be initiated using a consumer-use tape, the unit will not operate
even if CONT has been selected as the setup menu item No.111 "MEMORY MODE" setting.
(See page 29)

Time codes

Time codes are used when recording time code signals generated by the time code generator on the tape, reading out their values with the time code reader, and displaying the absolute positions of the tape in increments of hours, minutes, seconds and frames.

The time codes are written in the sub-code area (data area) of the helical track. For this reason, they can be read at any playback speed from the stop mode to slow-motion playback or high-speed playback.

The time code value is indicated on the display or superimposed.

User's bit

The user's bit is the 32-bit (8-digit) data frame in the time code signal which is made available to users. It can record operator numbers, etc.

The characters which can be used for the user's bit are 0 to 9 and A B C D E F.

Time Codes and User's Bit

Setting the time code

- 1 Set the unit to the menu mode (by setting the LOCAL/MENU/REMOTE switch to the MENU position).
- 2 Select the "TC PRESET" setup menu item, and press the DATA+ button (PAUSE/STILL button) or DATA- button (PLAY button). (See page 32)
- 3 Select the digit to be changed (blinking display) using the UP button (FF button) or DOWN button (STOP button).
- 4 The value is incremented or decremented using the DATA+ button (PAUSE/STILL button) or DATA- button (PLAY button).
- 5 Press the SET button (REC button) upon completion of the settings.
- 6 Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position.

<Notes>

- The current time code value appears as the default value.
- When the RESET button is pressed while the digit to be changed is blinking, the display is reset to "00:00:00:00."
- The time code cannot be set unless P-REC or P-FREE has been selected as the "TC MODE" setup menu item setting. (See page 32)
- If the MODE button (REW button) is pressed instead of the SET button while the digit to be changed is blinking, the time code setting will be canceled.

Setting the user's bit

- 1 Set the unit to the menu mode (by setting the LOCAL/MENU/REMOTE switch to the MENU position).
- 2 Select the UB PRESET setup menu item, and press the DATA+ button (PAUSE/STILL button) or DATA- button (PLAY button). (See page 32)

Now follow the same procedure as for setting the time code.

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Time Codes and User's Bit

Playing back the time code/user's bit

Set the unit to the STOP mode.

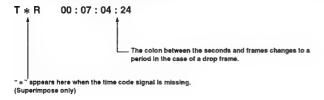
Set to TC or UB using the COUNTER button.
TC: The time code appears on the display.
UB: The user's bit appears on the display.

• Interpolation is provided by the CTL signal if the time code cannot be read.

Press the PLAY button. Playback is commenced, and the time code appears on the display. When ON has been selected as the SUPER setup menu item setting, the time code value will be superimposed onto the video signals which are output from the MONITOR OUT connector. (See page 28)

<Notes>

- The colon between the seconds and frames changes to a period when a drop frame time code is read.
- Interpolation is automatically provided by the CTL signal if the time code signal is missing.
 The display appearing at this time will be as shown below.



Superimposed Screens

When the unit's MONITOR OUT connector has been connected to a TV monitor, the control signals, time codes, etc. are displayed on the TV monitor screen as abbreviations.

The display can be switched ON or OFF using the setup menu item No. 000 setting. (See page 28)

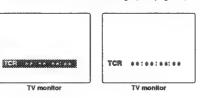
No display:
Normally, no display
S: Appears with FAN STOP,
L: Appears with LOW RF.
N: Appears with NO RF.

Abbreviation

CTL: control signal TCR: time code playback value UBR: user's im playback value REM: remaining tape amount

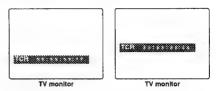
Characters displayed

The background of the characters superimposed onto the display can be changed using the setup menu item No.004 "CHARA TYPE" setting. (See page 28)



Display position

The position where the superimposed display appears can be changed using setup menu item No.002 "CHARA H-POS" and No.003 (CHARA V-POS). (See page 28)



<Note>

When the MODE button and the DATA+ button or DATA- button are pressed, the counter display appears temporarily while the buttons are held down so that the setting can be checked.

Even while the MODE button is held down, settings can still be performed using the DATA+ button or DATA- button as the actual status is checked.

Superimpose Screens

Operation mode

The value to be displayed can be selected using setup menu item No.001 "DISPLAY SEL".

(See page 28)

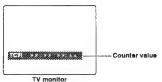
TIME: Counter value

T&STA: Counter value and VTR operation mode T&R: Counter value and remaining tape amount

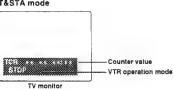
T&S&R: Counter value, VTR operation mode and

remaining tape amount

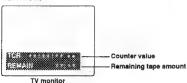
TIME mode



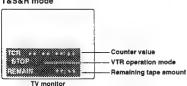
T&STA mode



T&R mode



T&S&R mode



<Notes>

One of the following errors may be displayed on the third line (remaining tape amount line) in the T&S&R mode. (See page 74)

INO RFI:

This appears when a blank part has been detected on the tape.

"E-09" appears on the front panel's counter

[LOW RF]:

This appears when there is no head output.

"E-01" appears on the front panel's counter

[FAN STOP]:

This appears when the cooling fan has shut

"E-70" and the counter value appear alternately on the front panel's counter display.

ISERVO NOT LOCKED):

This appears when the servo is not locked.

"E-00" appears on the front panel's counter display area.

Setup (Initial Settings)

The unit's main settings can be performed and checked using the on-screen menus which appear on the video monitor connected to the unit.

Il is also possible to perform and check the settings using the item numbers and setting numbers which appear on the front panel's display.

One user setting memory set is provided with the unit to enable the desired settings to be stored in the memory ahead of time for use.

How to perform the settings using the on-screen menus

Set the LOCAL/MENU/REMOTE switch to the MENU position.

The unit is now set to the menu setting mode, and the menu screen appears on the video monitor.

SET-UP N	MENU	MAIN
		NO.00
* 00	SYSTEM	
000	BASIC	
100	OPERATI	ON
200	INTERFA	CE
400	TAPE PR	OTECT
500	TIME COI	DE
600	VIDEO	
700	AUDIO	
END		

In the menu setting mode, the REW, STOP, FF. PLAY, PAUSE/STILL and REC buttons serve as the MODE. MENU-DOWN, MENU-UP, DATA-, DATA+ and SET buttons.

Press the MENU-UP button or MENU-DOWN button to move the cursor (*) to the menu where the changes are to be made.

Press the SET button to set the item. To return to the menu screen, press the SET button while holding down the MODE button.

4 Press the MENU-UP button or MENU-DOWN button to move the cursor (*) to the item where the changes are to be made.

The page can be scrolled up or down by pressing the MENU-UP button or MENU-DOWN button while holding down the MODE button.

5 Press the DATA+ or DATA- button to change

The setting value will flash while changes to the setting are being performed.

Press the SET button to enter the setting.

To change another item, repeat steps 4, 5 and 6.

<Note>

The setting can be canceled by pressing the MODE button. To change another item without entering a setting, press the MODE button, and repeat steps 4, 5 and 6.

Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position.

The menu setting procedure is now terminated.

How to restore the factory settinas

Set the LOCAL/MENU/REMOTE switch to the MENU position.

The unit is now set to the menu setting mode. and the menu screen appears on the video

Press the RESET button.

The unit is set to the default setting mode, and the default setting screen appears on the video

SELECT		MODE
	*	ESCAPE
		LOAD
		SAVE
		PROTECT

3 Press the MENU-UP button or MENU-DOWN button to position the cursor at LOAD, and press the SET button.

The unit is set to the LOAD mode, and the LOAD screen appears on the video monitor.

SET-UP MENU <LOAD>

* NO

FACTORY (ALL)

FACTORY (NOT SYSTEM)

USER (ALL)

USER (NOT SYSTEM)

- Press the MENU-UP button or MENU-DOWN button to move the cursor to FACTORY (ALL), and press the SET button.
 - If the cursor is moved to FACTORY (NOT SYSTEM) and this operation is performed, all the menus except the SYSTEM menu will be restored to the factory settings.
 - If the cursor is moved to NO and this operation is performed, operation will return to the menu screen without restoring the factory settings.
- 5 Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position.

The menu setting procedure is now terminated.

How to set the user default settings

Set the LOCAL/MENU/REMOTE switch to the MENU position.

The unit is now set to the menu setting mode, and the menu screen appears on the video monitor.

Performs steps 2 through 6 of "How to perform the settings using the on-screen menus," and change to the desired settings. (See page 23)

Press the RESET button.

The unit is set to the default setting mode, and the default setting screen appears on the video monitor.

SELECT		MODE	
	*	ESCAPE	
		LOAD	
		SAVE	
		PROTECT	

4 Press the MENU-UP button or MENU-DOWN button to position the cursor at SAVE, and press the SET button.

The unit is set to the SAVE mode, and the SAVE screen appears on the video monitor.

- Press the MENU-UP button or MENU-DOWN button to move the cursor to USER (ALL), and press the SET button.
 - If the cursor is moved to USER (NOT SYSTEM) and this operation is performed, all the menus except the SYSTEM menu will be updated.
 - If the cursor is moved to NO and this operation is performed, operation will return to the menu screen without updating the settings.
- The screen to confirm whether SAVE is to be initiated or canceled now appears. Press the MENU-UP button or MENU-DOWN button to move the cursor to the YES position, and press the SET button.

The settings are now saved in the memory.

7 Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position.

The menu setting procedure is now terminated.

Setup (Initial Settings)

How to load the user default settings

Set the LOCAL/MENU/REMOTE switch to the MENU position.

The unit is now set to the menu setting mode, and the menu screen appears on the video monitor.

2 Press the RESET button.

The unit is set to the default setting mode, and the default setting screen appears on the video monitor.

ſ	SELECT		MODE	
1		*	ESCAPE	
1			LOAD	
1			SAVE	
1			PROTECT	

3 Press the MENU-UP button or MENU-DOWN button to position the cursor at LOAD, and press the SET button.

The unit is set to the LOAD mode, and the LOAD screen appears on the video monitor.

SET-UP MENU	<load></load>
* NO	
FAC	CTORY (ALL)
FAC	CTORY (NOT SYSTEM)
USE	ER (ALL)
USE	ER (NOT SYSTEM)

- 4 Press the MENU-UP button or MENU-DOWN button to move the cursor to USER (ALL), and press the SET button.
 - If the cursor is moved to USER (NOT SYSTEM) and this operation is performed, the user settings for all the menus except the SYSTEM menu which are saved in the memory will be used for operation.
 - If the cursor is moved to NO and this operation is performed, operation will return to the menu screen without any changes made to the user settings which are saved in the memory.
- 5 Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position.

The menu setting procedure is now terminated.

How to initiate the menu protect mode

By setting the unit to the menu protect mode, the opening of the setup menus can be disabled even if the front panel's LOCAL/MENU/REMOTE switch is set to the MENU position.

1 Set the LOCAL/MENU/REMOTE switch to the MENU position.

The unit is now set to the menu setting mode, and the menu screen appears on the video monitor.

Press the RESET button.
The unit is set to the default setting mode, and the default setting screen appears on the video

monitor.

SELECT MODE

* ESCAPE
LOAD
SAVE
PROTECT

3 Press the MENU-UP button or MENU-DOWN button to position the cursor at PROTECT, and press the SET button.

and the screen to confirm whether menu protect mode, and the screen to confirm whether menu protect is to be initiated or canceled now appears on the video monitor.

MENU PROTECT OK?

* NO
YES

Press the MENU-UP button or MENU-DOWN button to move the cursor to the YES position, and press the SET button.

The menu screen now appears.

5 Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position. The unit is now set to the menu protect mode.

When the LOCAL/MENU/REMOTE switch is set to the MENU position, "MENU PROTECTED" appears on the video monitor screen instead of the menu setting mode being established.

<Note>

If, while the menu protect menu is set, the LOCAL/MENU/REMOTE switch is set to the menu position while the front panel's COUNTER button is held down, the menu setting mode will be established, and regular menu settings can be performed.

Perform steps 2 through 7 in "How to perform the settings using the on-screen menus." (See page 23)

How to release the menu protect mode

Set the LOCAL/MENU/REMOTE switch to the MENU position while holding down the front panel's COUNTER button.

The unit is now set to the menu setting mode, and the menu screen appears on the video monitor.

2 Perform steps 2 and 3 of "How to initiate the menu protect mode" described above.

The screen to confirm whether menu protect is to be initiated or canceled now appears on the video monitor.

MENU PROTECT OK?

* NO
YES

3 Press the MENU-UP button or MENU-DOWN button to move the cursor to the NO position, and press the SET button.
The menu protect mode is now released.

How to display the DIAG menu

This unit incorporates a function for displaying the HOURS METER and software program version on the video monitor.

Set the LOCAL/MENU/REMOTE switch to the MENU position while holding down the EJECT button.

The unit is now set to the DIAG display mode, and the HOURS METER appears on the video monitor.

DIAG	-MENU HC	OURS METER	
HO	OPERATION	H00000	
H1	DRUM RUN	H00000	
H2	TAPE RUN	H00000	
H3	THREADING	T00000	

With the HOURS METER displayed, press the MENU-UP button or MENU-DOWN button while holding down the MODE button.

The software program version is displayed on the video monitor.

The front microcomputer version appears on the front panel's counter display.

DIAG-MENU <ntsc></ntsc>	VERSION
1F	1.**-**-*
AV-SYSCON	1,**-**-*
SBC	1,**-**-*.**
CYLINDER	1.**-**-*
REEL	1.**-**-*,**
END	

When the MENU-UP button or MENU-DOWN button is pressed again while holding down the MODE button, the HOURS METER display is restored.

3 Set the LOCAL/MENU/REMOTE switch to the LOCAL or REMOTE position.

The normal mode is now restored.

Setup Menus

SYSTEM menu

	Item		Setting	
No.	Superimposed display	No.	Superimposed display	Description of setting
00	SYSTEM H	0000	- 128 : : :	For adjusting the horizontal phase. This item enables the phase to be varied by up to ±1.5 μ.
01	SC COARSE	0000 0001 0002 0003	90	For coarsely adjusting the subcarrier phase. This item enables the phase to be varied by selecting one of 4 positions at 90-degree increments.
0/2	SCFINE	0000	- 128 : : : : : 127	For finely adjusting the subcarrier phase. This item enables the phase to be varied by up to 90 degrees. By using this item in tandem with SC COARSE, any setting up to 360 degrees can be achieved.
63	SCH COARSE	0000 0001 0002 0003	90	For coersely adjusting the SCH (Sub Carrier to Horizontal) phase. This item enables the phase to be varied by selecting one of 4 positions at 90-degree increments.
04	SCH FINE	0000	- 128 : : : :	For finely adjusting the SCH (Sub Carrier to Horizontal) phase. This item enables the phase to be varied by up to 90 degrees. By using this item in tandem with SCH COARSE, any setting up to 360 degrees can be achieved.
05	VIDEO LEVEL	0000 0128 0255	128 : : : :	
06	SET UP LEVEL	0000 0128 0255	- 128 (: : 127	
07	HUE	0000 0128 0255	- 126 : : : : 127	For setting the hue. This item enables the hue to be varied by up to ±25 degrees.
08	CHROMA LEVEL	0000 0128 0255	- 128 (127	

The underlining denotes the factory mode setting.

<Notes>

- Item numbers 05, 06, 07 and 08 are initialized only when ALL has been selected by the initialization operation.
- The setting items are not initialized by the regular menu reset operation.
 The unit is shipped with the settings already adjusted.

BASIC menu

Item			Setting		
No.	Superimposed display	No.	Superimposed display	Description of setting	
000	SUPER		***************************************	For setting whether to show the superimposed display from the MONITOR	
				OUT connector.	
	1	0000		0: The superimposed display is not shown.	
		0001	ON	1: The superimposed displayed is shown.	
001	DISPLAY SEL			For setting what is to be shown by the superimposed display from the	
				MONITOR OUT connector.	
		0000		0: Only the time is displayed.	
		0001		1: The time and operation mode are displayed.	
		0002		2: The time and remaining tape amount are displayed.	
		0003	TESER	3: The time, operation mode and remaining tape amount are displayed.	
002	CHARA H-POS	0000	0	For setting the horizontal position of the superimposed characters.	
		0001	1	(10 steps)	
	1	1			
		0003	_4		
	1	0007	:		
			9		
003	CHARA V-POS	0000		For setting the vertical position of the superimposed characters.	
		0001	1	(23 steps)	
			:		
		0003	3		
		0007	20		
	ļ	3007	22		
004	CHARA TYPE			For selecting the type of characters for the superimposed and menu	
				displays.	
		0000		0: White characters on a black background	
	1	0001	W/OUT	1: White characters with black outlines	

The underlining denotes the factory mode setting.

<Note>

If the DATA+ button or DATA- button is pressed with the MODE button held down when the CHARA H-POS and CHARA V-POS items are being set, the counter display appears temporarily, and the positions can be set while the actual status is monitored.

Setup Menus

OPERATION menu

	item		Setting		
No.	SuperImposed display	No.	Superimposed display	Description at setting	
100	LOCAL ENABLE			For selecting the switches which can be operated on the front panel in the REMOTE mode.	
		0000	DIS	0: None of the switches can be operated.	
		0001		Only the STOP switch and EJECT switch can be operated.	
101	TAPE TIMER			For selecting the CTL counter display.	
		0000		0: ±12-hour display 1: 24-hour display	
		0001	2411	, ,	
102	S/F/R EE SEL	0000	EE	For selecting the EE or VV output in the STOP, FF or REW mode, 0: E-E (electric modulation to electric playback) is output.	
		0001		1: V-V (VTR to VTR recording) is output.	
103	WIDE MODE			For selecting the WIDE mode.	
		0000		0: The mode is detected automatically.	
		0001		1: The mode is forcibly treated as WIDE.	
		0002	NOHMAL	2: The mode is forcibly treated as NORMAL.	
104	TAPE IN MOD			For selecting the operation which is to be performed when the cassette has been inserted into the unit.	
	ļ	0000	STOP	0: STOP	
	ļ	0001		1: REWIND	
		0002		2: PLAY PAUSE	
		0003	PLAY	3: PLAY	
105	TAPE END MOD			For selecting the operation which is to be performed when the tape has	
	1	0000	eron	arrived at the end.	
		0001		1: REWIND	
		0002		2: The tape rewound and, upon completion of rewinding, it is ejected.	
		0003	EJECT	3: EJECT	
106	AUTO BACK			For selecting whether the tape is be automatically rolled back in order to	
		0000	055	ensure frame to frame continuity. 0: The tape is not automatically rolled back.	
		0001		1: The tape is automatically rolled back.	
107	FORMAT SEL			For selecting the format when an L cassette is to be used.	
		0000		0: DVCPRO mode	
		0001		1: DV mode	
		0002	DVCAM	2: DVCAM mode	
108	REC INHIBIT	0000	055	For selecting whether to inhibit recording on the unit. O: Recording is allowed.	
		0001		11: Recording is anowed.	
109	CAP, LOCK			For selecting the capstan lock mode.	
100	John Look	0000	_2E	0: The 2F lock mode is selected for the capstan.	
		0001	4F	1: The 4F lock mode is selected for the capstan.	
110	FF. REW MAX			For setting the maximum FF and REW speed.	
		0000		0: 32 times normal tape speed	
	<u> </u>	0001	X60	1: 60 times normal tape speed	
111	MEMORY MODE	0000	000	For setting the memory operation.	
		0000		0: The memory operation is not performed. 1: The tape is stopped during FF or REW near the BEGIN point.	
		0001		2: When the tape arrives at the end, it is rewound to the BEGIN point where	
	1			it stops.	
		0003	CONT	3: When the tape arrives at the end, it is rewound to the BEGIN point and	
				played. This sequence is repeated.	
112	BGN PRESET			For setting the BEGIN point.	
113	END PRESET			For setting the END point.	
			1	1	

The underlining denotes the factory mode setting.

INTERFACE menu

	Item		Setting		
No.	Superimposed display	No.	Superimposed display	Description of setting	
200	BAUD RATE	0000 0001 0002 0003 0004	1200 2400 4800 9600 19200		
201	DATA LENGTH	0000 0001	8BIT 7BIT	For setting the RS-232C data length.	
202	STOP BIT	0000 0001	18IT 2BIT	For setting the RS-232C stop bit.	
203	PARITY	0000 0001 0002	ODD	For setting none, odd or even as the RS-232C parity bit. 0: The parity bit is not used. 1: Odd parity is used for the parity bit. 2: Even parity is used for the parity bit.	
204	ACK RETURN	0000 0001		For setting the RS-232C return data. 0: The ACK code is not returned. 1: The ACK code is returned.	
205	232C ID SEL	0000	D250	For setting the RS-232C device ID. 0: The ID of the AJ-D250 is returned. Use this setting when exercising control using the AJ-A250 or a computer.	
		0001	D230	The ID of the AJ-D230 is returned. Use this setting when exercising control using the AJ-A571. When the AJ-A571 is used for control, the unit can be used as a player VTR.	

The underlining denotes the factory mode setting.

Setup Menus

TAPE PROTECT menu

	item		Setting	Description of setting	
No.	Superimposed display	No.	Superimposed display		
400	STILL TIMER	0000	0,5s	For selecting the time taken for the tape protection mode to be established	
		0001	5s	when the unit has been left standing in the STOP, PLAY, PAUSE or STILL	
ļ		0002	10s	mode.	
		0003	30s	(Units = s: seconds, min: minutes)	
		0004	1min	 When the unit has been left standing in the REC PAUSE mode, the time 	
		0005	.2min	taken for the tape protection mode to be established is fixed at 2 minutes.	
401	SRC PROTECT			For setting the tape protection operation when the unit has been left standing in the PAUSE mode.	
		0000	STEP	0: Step (step FWD in STILL or PAUSE mode; step REV in REC PAUSE mode)	
1		0001	HALF	1: Half loading (STANDBY OFF)	
402	DRUM STOBY			For setting the mode in which the drum is to be stopped during STANDBY OFF.	
		0000	OFF	0; The drum is stopped during STANDBY OFF.	
		0001	ON	1: The drum rotates at all times.	
403	STOP PROTECT			For setting the tape protection operation when the unit is left standing in the STOP mode.	
1		0000	STEP	0; Step	
		0001	HALF	1: Half loading	

The underlining denotes the factory mode setting.

<Note>

When a consumer-use DV format tape is used, the tape protection mode will be established in 10 seconds even if 30s, 1min or 2min is selected as the STILL TIMER item setting.

TIME CODE menu

ltern			Setting		
No.	Superimposed display	No.	Superimposed display	Description of setting	
500	VITC POS-1	0000 0001	10L 11L	For setting the position where the VITC signal is to be inserted. (The same line as the one set for the VITC POS-2 item cannot be selected.)	
		0006	16L		
		0010	20L		
501	VITC POS-2	0000 0001		For setting the position where the VITC signal is to be inserted. (The same line as the one set for the VITC POS-1 item cannot be selected.)	
		0008	181		
		0010	20L		
502	VITC BLANK	0000		For setting whether the VITC signal is to be output. 0: The VITC signal is not output. 1: The VITC signal is output.	
503	TCG REGEN	0000 0001 0002	TC	For selecting the signal to be regenerated when the time code generator (TCG) is in the regeneration mode (item No.506). 0. Both TC and UB are regenerated. 1. Only TC is regenerated. 2. Only UB is regenerated.	
504	BINARY GP	0000 0001 0002 0003 0004 0005 0006	001 010 011 100 101	For setting the status for using the user's bit of the TCG. 0: Not specified (a character set is not used). 1: ISO characters (8-bit character set complying with ISO646, ISO2022) 2: Unassigned 1 (undefined) 3: Unassigned 2 (undefined) 5: Page/line (page/line multiplex system complying with SMPTE262M) 6: Unassigned 4 (undefined) 7: Unassigned 5 (undefined)	
505	DF MODE	0000 0001		For setting drop frame or non-drop frame for the CTL and TCG. 0: The drop frame mode is established for operation. 1: The non-drop frame mode is established for operation.	
506	TC MODE	0000 0001 0002 0003	P-FREE I-REG	For setting the TCG mode. 1: PRESET of the internal TC is used in the REC RUN mode. 0: PRESET of the internal TC is used in the FREE RUN mode. 2: The internal TC is used in the regeneration mode. 3: The internal TC is used in the regeneration mode.	
507	TC PRESET			For setting the TCG value.	
508	UB PRESET			For setting the user's bit value.	
509	TCG CF FLAG	0000 0001		For setting the CF flag of the TCG to ON or OFF. 0: The CF flag is set to OFF. 1: The CF flag is set to ON.	

The underlining denotes the factory mode setting.

Setup Menus

VIDEO menu

Item			Setting		
No.	Superimposed display	No.	Superimposed display	Description of setting	
600	VIDEO MODE	0000 0001		For setting the recording and playback of the video signals. 0: When monochrome signals are used 1: When color signals are used 9 Set this item to the BW mode when monochrome signals are to be recorded or played back. Set the item to the COLOR mode with regular color signals. If color signals are recorded in the BW mode, the pictures will be abnormally colored when the signals are played back.	
601	V-MUTE SEL	0000 0001		For selecting the processing to be performed in the event that LOW-RF has occurred or the servo lock has been disengaged during playback. 0: The video signals are not muted. 1: The video signals are muted.	
602	CC (F1) BLANK	0000 0001		For selecting ON or OFF for the closed capture signals in the first field. 0: Forcible blanking 1: No blanking	
603	CC (F2) BLANK	0000 0001		For selecting ON or OFF for the closed capture signals in the second field. 0: Forcible blanking 1: No blanking	
604	FREEZE SEL	<u>0000</u> 0001		For selecting the freeze mode of the still pictures in the PLAY PAUSE or frame advance mode. O: Field freeze 1: Frame freeze	
605	IN FRM DET	0000 0001		For selecting the process for detecting the input signal frames. 0: The frames are detected at ill times. 1: Frame detection ill inhibited only with non-standard signals.	
606	STD/NSTD SEL	0000		For selecting the video signal processing. 0: The mode corresponding to the input is automatically established. 1: The non-standard mode is forcibly established.	
607	VIN SETUP	0000 0001		For selecting the setup level when input composite signals are to be converted into component signals and recorded. O: The input signals are recorded as they are. 1: The signals are recorded after removing the 7.5% setup.	

The underlining denotes the factory mode setting.

AUDIO menu

	Item Setting		Setting		
No.	SuperImposed display	No.	Superimposed display	Description of setting	
700	AUDIO EDIT IN	<u>0000</u>		For selecting the joining method at the IN point during digital audio editing. 0: Cutting 1: Fading	
701	AUDIO EDIT OUT	0000 0001		For selecting the joining method at the OUT point during digital audio editing. 0: Cutting 1: Fading	
702	PB FADE	0000 0001 0002	CUT	For selecting the processing to be performed for the audio edit points (IN point, OUT point, frame continuity point) during playback. O: The same status as for recording is established. 1: Forcible cutting 2: Forcible fading	
703	SEARCH CUE	0000 0001		For selecting whether to output the CUE AUDIO signal during searches and FF or REW (VV). O: The signal is not output. 1: The signal is output.	
704	DV PB ATT	0000 0001		For selecting the audio output level during DV format playback. 0: Normat playback level 1: The output level is controlled only during DV format playback.	
705	CUE INSERT	0000 0001		For selecting whether to record the CH1/CH2 mixed signal for audio input in CUE AUDIO when editing the audio insert. O: The mixed signal is not recorded as the CUE AUDIO signal. The mixed signal is recorded as the CUE AUDIO signal.	

The underlining denotes the factory mode setting.

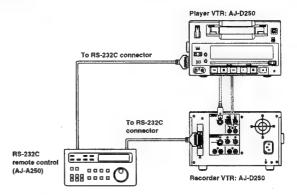
Editing

Editing with the RS-232C remote control

Using the RS-232C remote control (AJ-A250), which is available as an optional accessory, two units—a player VTR and a recorder VTR—can be controlled directly from the controller to enable speedier and more efficient assemble editing, insert editing and other editing jobs.

Preparation:

 As shown in the figure below, connect the player VTR and recorder VTR to the RS-232C remote control



- Set the INPUT SELECT switch to the position which corresponds to the connection with the player VTR.
- S-VIDEO: When connected to the S-VIDEO IN and AUDIO IN connectors
- LINE: When connected to the VIDEO IN and AUDIO IN connectors
- Set the LOCAL/MENU/REMOTE switch to the REMOTE position.

<Note:

The disturbances in the pictures during preview can be alleviated by inputting a black burst signal or other reference signal to the REF VIDEO input connectors of the player VTR and recorder VTR.

Operation:

Use the RS-232C remote control to control both the player VTR and recorder VTR.

Read the operating instructions of the AJ-A250 carefully.

<Note:

When the AG-A571 is to be used as the remote control, select D230 as the setup menu item No.205 "232C ID SEL" setting. (See page 30)

The unit can be used as the player VTR.

Audio editing functions

The information (setup menu item No. 700, 701) concerning the selection of the joining method used at the edit points is recorded during digital audio editing, and this information is detected during playback so that the edit points can be processed automatically.

This applies only when AUTO has been selected as the playback fade selection (setup menu item No.702) setting.

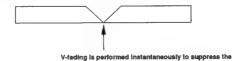
Cutting

When CUT has been selected as the joining method at the edit points. (setup menu item No.700, 701)



V-fading

When FADE has been selected as the joining method at the edit points (setup menu item No.700, 701)



<Notes>

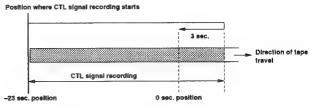
- When CUT has been selected for the playback fade selection (setup menu item No.702), cutting will be performed for all the joins at the edit points.
- When FADE has been selected for the playback fade selection (setup menu item No.702), Vfading is performed for all the joins at the edit points.
- When only one channel has been selected for the sound to be inserted during insert editing, the sound of the channel which has not been selected will be muted.

First Edit Function (Preparing the editing tape)

The CTL (control) signal must be recorded ahead of time onto the editing tape. The method used to record it differs depending on whether assemble editing or insert editing is to be performed.

First edit for assemble editing

In the case of a tape for assemble editing, the CTL signal is recorded at the beginning of where the recording is to be commenced.



First edit for insert editing

In the case of a tape for insert editing, the CTL signal is recorded from the beginning of where the recording is to be commenced to the end.

The "E-00" servo lock error appears on the tape counter when insert editing is performed for a tape on which the CTL signal has not been recorded.

When insert editing is performed, the CTL signal must be recorded ahead of time.

<Note:

When first edit is to be performed, operation can be conducted by connecting the RS-232C remote control (AJ-A250), which is available as an optional accessory. However, control using the RS-232C interface (EFE command) can also be exercised from a computer. (See page 50)

RS-232C interface.

■ Status checks

The current VTR mode can be checked.

■ Simple editing functions

Video/audio, audio/video and various other insert editing operations can be performed.

■ Search function

Specific frame positions can be searched.

1. Hardware specifications

(1) Interface specifications

Connector:

D-SUB 25 pins

DCE specifications (straight cable supported)

•	,	
Pin No.	Signal	Description
1	FG	Frame GND
2	SD (TXD)	Transmitted Data
3	RD (RXD)	Received Data
4	RS (RTS)	Request to Send
5	CD (CTS)	Clear to Send
6	DR (DSR)	Data Set Ready
7	sg	Signal GND
20	ER (DTR)	Data Terminal Ready

The following functions can be controlled using the Example of connections

Computer end

d VTR end

Frame	FG		1	FG
3	SD (TXD)		2	SD (TXD)
2	RD (RXD)	-	3	RD (RXD)
7	RS (RTS)	-	4	RS (RTS)
8	CD (CTS)	-	5	CD (CTS)
6	DR (DSR)	-	6	DR (DSR)
5	SG		7	SG
4	ER (DTR)	——	20	ER (DTR)

(2) Communication parameters

The unit's communication parameters are as listed below. If any of the parameters are to be changed, select the items on the menu concerned, and make the changes.

Baud Rate: 9600 bps Bit Length: 8 bit Stop Bit: 1 bit Parity: NONE

RS-232C

2. Software specifications

(1) External interface specifications

Communication system	Asynchronous system, full duplex	
Baud rate	1200, 2400, 4800, 9600 or 19200 bps	
Bit length	8 bits or 7 bits	
Stop bit	1 bit or 2 bits	
Parity	None, odd or even	

<Notes>

- The factory settings are 9600 bps, 8 bits, 1 stop bit and none as the parity.
- The unit has a 127-byte receive buffer.

(2) Sending format (computer → VTR)

■ Data format

[STX] [discrimination] [:] [data] [ETX] 02H XX XX XX 3AH XX·····XX 03H

20H<XX<7FH (XX= HEX character code)

• discrimination : Command identifier (3 bytes)

: : Code representing a delimiter between the command and data.

• data : The data code is added as

required.

 All send commands must start with STX (character code 02H).

Next comes the discrimination, which identifies the command.

If required, the data is added following the colon. At the very end comes ETX (character code 03H).

When STX is re-sent before ETX is sent, the receive buffer inside the VTR is cleared (all the data received so far will be destroyed), and the data is processed anew with the STX which was received again at the head.

(3) Receiving format (VTR → computer)

The VTR responds to ■ send command with the format data below.

- First, the VTR returns the data indicating whether the command from the computer was received properly.
 - If the communication was error-free, the VTR returns the ACK (Acknowledge) data.

[ACK]

 If there was a problem in communication, the VTR returns the data starting with NAK (Negative Acknowledge).

If the VTR was in the process of sending the data when the computer sent its command, the VTR returns NAK after it completes the sending of the data.

The VTR now destroys all the received data with errors.

[NAK] [

- Contents of □
- 1 (31H): Parity Error
- 3 (33H): Framing Error
- 4 (34H): Over Run Error
- Next, after ACK is returned when the communication was error-free, the data is returned in the following format by the operation of the VTR.
- The format of the response (return) data in cases where commands from the computer were properly received by the VTR is as follows.

[STX] [data] [ETX]

example:

Send command Return data = Receive data

 $[\mathsf{STX}]\,\mathsf{QOP}\,[\mathsf{ETX}]\to[\mathsf{ACK}]\,[\mathsf{STX}]\,\mathsf{OEJ}\,[\mathsf{ETX}]$

(STX) QCD (ETX) → (ACK) (STX) CD (CCCCCCCC) (ETX)

 If there were errors in the data or any problems in the VTR, a description of the reason why the data was not received is returned in the following format

> [STX] E R 0 0 [ETX] 02H 45H 52H 30H 30H XX 03H

- Contents of □
- 1 (31H): A command which is not supported or a command execution error
- 2 (32H): Erroneous parameter with the wrong data code
- 3 (33H): Receive buffer overflow error

[STX] E R 1 0 [ETX] 02H 45H 52H 31H 30H XX 03H

- Contents of □
- 2 (32H): Front loading error
- 3 (33H): Loading error
- 4 (34H): Drum capstan system error
- 5 (35H): Reel system error
- 6 (36H): Tension system error
- 7 (37H): Fan motor error
- / (3/H): Fan motor
- 8 (38H): Dew error

[STX] E R 1 2 [ETX] 02H 45H 52H 31H 32H XX 03H

- Contents of □
- 0 (30H): Search error (start/end)
- 1 (31H): Search error (search aborted by front panel operation)
- 2 (32H): Search error (no target position)
- 3 (33H): Search error (search aborted by command)

[STX] E R 1 F F [ETX] 02H 45H 52H 31H 46H 46H 03H System (servo communication) error

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(4) Command list

■ List of commands

The table below lists the send commands and operations for each mode as seen from the computer end.

[STX] = HEX code 02H

[ETX] = HEX code 03H

: = HEX code 3AH

The discrimination part and data part represent the ASCII codes which support the corresponding symbols.

Audio control commands

Sends data of computer	Return data from VTR	Description of command
[STX] AOC:m (ETX)	(STX) AOC [ETX]	Sets the audio signal output channel.

Counter control commands

Sends data of computer	Return data from VTR	Description of command
[STX] CCP:data [ETX]	(STX) CCP (ETX)	Presets the CTL counter data (same as CLP).
[STX] CDF [ETX]	(STX) CDF (ETX)	Cancels the drop frame mode setting.
[STX] CON (ETX)	(STX) CDN (ETX)	Makes the drop frame mode setting valid.
[STX] CHM:m [ETX]	(STX) CHM (ETX)	Sets 12-/24-hour mode for the CTL display.
[STX] CLP:data (ETX)	(STX) CLP (ETX)	Presets the CTL counter data (same as CCP).
(STX) CRN:m (ETX)	(STX) CRN (ETX)	Sets the signal to be regenerated when TCG is in regeneration mode.
[STX] CRR [ETX]	(STX) CRR (ETX)	Uses the TCG in the REC RUN mode.
[STX] CRT [ETX]	[STX] CRT [ETX]	Resets the CTL counter data.
[STX] CTC [ETX]	[STX] CTC [ETX]	Sets the mode in which time code data is to be used for the counter value.
[STX] CTF [ETX]	(STX) CTF (ETX)	Uses the TCG in the FREE RUN mode.
[STX] CTL (ETX)	[STX] CTL [ETX]	Sets the mode in which CTL data is to be used for the counter value.
[STX] CTM:m [ETX]	(STX) CTM (ETX)	Sets the TCG operation mode.
[STX] CTP [ETX]	(STX) CTP (ETX)	Uses the TCG in the preset mode.
(STX) CTR (ETX)	[STX] CTR [ETX]	Uses the TCG in the regeneration mode.
(STX) CTS:data (ETX)	[STX] CTS [ETX]	Presets the TCG data.
[STX] CUS:data [ETX]	[STX] CUS [ETX]	Presets the user's bit data.
[STX] CVP:data [ETX]	[STX] CVP [ETX]	Specifies the line where the external VITC is to be inserted.

Display control commands

Sends data of computer	Return data from VTR	Description of command
[STX] DFC:m [ETX]	[STX] DFC [ETX]	Sets the display mode of the display counter.

Edit control commands

Sends data of computer	Return data from VTR	Description of command
[STX] EAB:m (ETX)	(STX) EAB (ETX)	Sets the auto back recording.
[STX] EAD:m (ETX)	[STX] EAD [ETX]	AUDIO INSERT PAUSE
[STX] EIN [ETX]	[STX] EIN [ETX]	VIDEO INSERT PAUSE
[STX] EFE:data [ETX]	(STX) EFE (ETX)	FIRST EDIT

Media operation control commands

Sends date of computer	Return data from VTR	Description of command
[STX] HRE:m [ETX]	[STX] HRE [ETX]	Sets the VTR's operation mode at the tape end (when recording).
[STX] HTE:m [ETX]	(STX) HTE (ETX)	Sets the VTR's operation mode at the tape end (at all times other than recording).
[STX] HTI:m [ETX]	(STX) HTI (ETX)	Sets the VTR's operation mode when the tape is inserted.

• Input/output control commands

Sends data of computer	Return data from VTR	Description of command
(STX) IEV:data [ETX]	[STX] IEV [ETX]	Switches between E-E and V-V output. E-E: Electric modulation to electric playback V-V: VTR to VTR recording

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Operation control commands

Sends data of computer	Return data from VTR	Description of command
[STX] OAF [ETX]	[STX] OAF [ETX]	Advances frames in the forward direction.
[STX] OAR [ETX]	[STX] OAR [ETX]	Advances frames in the reverse direction.
[STX] OBF [ETX]	(STX) OBF (ETX)	STANDBY OFF
(STX) OBN (ETX)	[STX] OBN [ETX]	STANDBY ON
[STX] OEJ [ETX]	[STX] OEJ [ETX]	EJECT
[STX] OFF [ETX]	(STX) OFF (ETX)	FAST FORWARD
[STX] OPA (ETX)	(STX) OPA [ETX]	PAUSE
(STX) OPL (ETX)	[STX] OPL [ETX]	PLAY
[STX] OPR [ETX]	[STX] OPR [ETX]	REVERSE PLAY
[STX] OPT:data [ETX]	[STX] OPT [ETX]	Plays the tape back to the designated position (same as SPT).
(STX) ORC (ETX)	[STX] ORC [ETX]	RECORD
[STX] ORP (ETX)	[STX] ORP (ETX)	RECORD PAUSE
[STX] ORW [ETX]	(STX) ORW [ETX)	REWIND
[STX] OSD (ETX)	(STX) OSD (ETX)	SHUTTLE SPEED DOWN
[STX] OSF:n [ETX]	(STX) OSF (ETX)	SHUTTLE FORWARD
[STX] OSL [ETX]	(STX) OSL (ETX)	Starts stow playback.
[STX] OSP (ETX)	[STX] OSP (ETX)	STOP
[STX] OSR:n (ETX)	(STX) OSR (ETX)	SHUTTLE REVERSE
[STX] OSU [ETX]	[STX] OSU [ETX]	SHUTTLE SPEED UP
[STX] OTE:m [ETX]	[STX] OTE [ETX]	Selects E-E output and V-V output.

Query control commands

Sends data of computer	Return data from VTR	Description of command
[STX] OAL [ETX]	[STX] ALVO [ETX]	Queries the address level.
[STX] QAO [ETX]	[STX] AOm [ETX]	Queries the audio output channels.
[STX] QCA [ETX]	[STX] CUPdata [ETX]	Queries the user's bit data which was preset in the TCG.
(STX) QCB (ETX)	[STX] CUSdata (ETX)	Queries the user's bit data of the TCG.
(STX) QCC (ETX)	[STX] CCPdata [ETX]	Queries the counter data (same as QCD).
[STX] QCD [ETX]	[STX] CDdata [ETX]	Queries the counter data (same as QCC).
(STX) QCE (ETX)	[STX] CTEdata (ETX)	Queries the TCG preset data,
[STX] QCF [ETX]	[STX] CDm [ETX]	Queries the drop frame mode.
[STX] OCM [ETX]	[STX] CHMm [ETX]	Queries the 12-/24-hour mode for the CTL display.
[STX] QCP (ETX)	[STX] CVPdata [ETX]	Queries the line where the VITC signal is to be inserted.
[STX] QCR [ETX]	[STX] CRNm [ETX]	Quaries the signal to be regenerated when the TCG is in the regeneration mode.
(STX) QCS (ETX)	[STX] CTSdata [ETX]	Queries the TCG data.
(STX) QCT (ETX)	[STX] CTdate [ETX]	Queries the TCG mode.
[STX] QCU [ETX]	[STX] CURdata [ETX]	Queries the user's bit data of the TCR.
[STX] QCW [ETX]	(STX) CTMm (ETX)	Queries the TCG mode.
[STX] QCZ [ETX]	[STX] CTZm [ETX]	Queries the TCR read status.
(STX) QDF (ETX)	(STX) DFCm (ETX)	Queries the display mode of the counter display.
(STX) QEB (ETX)	(STX) EABm (ETX)	Queries the auto back recording.
(STX) QHC [ETX]	[STX] HCMdata [ETX]	Queries the cassette tape information.
[STX] OHE [ETX]	[STX] HTEm [ETX]	Sets the VTR's operation mode at the tape end (at all times other than recording).
[STX] QHI [ETX]	(STX) HTIm (ETX)	Queries the tape insertion mode.
[STX] OHR [ETX]	(STX) HTRdata (ETX)	Queries the remaining tape amount.
[STX] QHT [ETX]	(STX) HREm (ETX)	Sets the VTR's operation mode at the tape end (when recording).
[STX] QIC [ETX]	[STX] 1 [ETX]	Queries the product area classification code.
(STX) OID (ETX)	[STX] data [ETX]	Queries the equipment's ID code.
[STX] OIE [ETX]	[STX] IEVdata [ETX]	Oueries the E-E output and V-V output.

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Query control commands

Sends data of computer	Return data from VTR	Description of command
(STX) QLH:m [ETX]	[STX] LHRdata (ETX)	Queries the hours meter.
[STX] QOT (ETX)	[STX] OTEm (ETX)	Oueries the E-E output and V-V output.
[STX] QOP (ETX)	[STX] data [ETX]	Queries the VTR's operation mode.
[STX] QOD:d1d2 [ETX]	[STX] OASdata [ETX]	Queries the operation modes.
[STX] QOS [ETX]	[STX] OPSdata (ETX)	Queries the operation modes.
[STX] QRA [ETX]	[STX] RAm [ETX]	Queries the ACK (Acknowledge) code response setting.
(STX) QRS (ETX)	[STX] RSEm [ETX]	Queries the search end mode.
[STX] QRV:m [ETX]	[STX] VERdeta (ETX)	Queries the software program version.
(STX) QSM (ETX)	[STX] SMMm [ETX]	Queries the memory mode.
[STX] QSY (ETX)	[STX] SMILPdata [ETX]	Queries the memory in data.
[STX] QSP:m [ETX]	[STX] SMPdata [ETX]	Queries the repeat position.
(STX) OTT (ETX)	[STX] TSTdata (ETX)	Queries the standby off timer setting.
(STX) QVI (ETX)	[STX] Vim [ETX]	Queries the INPUT SELECT switch position.
[STX] OVM [ETX]	(STX) VMDm (ETX)	Queries the video mode setting.

Communication control commands

Sends data of computer	Return data from VTR	Description of command
[STX] RAN [ETX]	(STX) RAN (ETX)	Makes the ACK (Acknowledge) code return function valid.
[STX] RAF [ETX]	[STX] RAF [ETX]	Cancels the ACK (Acknowledge) code return function.
[STX] RCK (ETX)	[STX] RCK [ETX]	Checks the communication line.
[STX] RSE:m [ETX]	[STX] RSE (ETX)	Sets the search end mode.

Searches control commands

Sends data of computer	Return data from VTR	Description of command
[STX] SCP:data [ETX]	(STX) SCP [ETX]	Searches the counter value and play.
[STX] SCS:data [ETX]	[STX] SCS [ETX]	Searches the counter value and sets to still picture (same as SRS).
[STX] SMI:data [ETX]	(STX) SMI (ETX)	Sets the memory search data.
[STX] SMM:m [ETX]	[STX] SMM [ETX]	Sets the memory mode.
(STX) SMP:data [ETX]	[STX] SMP [ETX]	Specifies the repeat position.
[STX] SMS (ETX)	[STX] SMS [ETX]	Searches the memory data.
[STX] SPT:data [ETX]	(STX) SPT (ETX)	Plays the tape back to the designated position (same as OPT).
[STX] SRS:data [ETX]	[STX] SAS [ETX]	Searches the counter value and sets to still picture (same as SCS).
[STX] SUB:data [ETX]	[STX] SUB [ETX]	Searches the user's bit.

• Timer control commands

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Sends data of computer	Return data from VTR	Description of command
(STX) TST:data [ETX]	[STX] TST [ETX]	Sets the standby off timer.

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■ Audio control commands

Sends data of computer	Return data from VTR	Description of command
[STX] AOC:m [ETX] Parameters m = 1: CH1 2: CH2 3: CH3 4: CH4 5: CH1 & CH2 6: CH3 & CH4 7: CH1+3 & CH2+4	(STX) AOC (ETX)	Sets the audio signal output channel/s. Playback output is possible for CH3 and CH4 when audio signals for 4 channels have been recorded on a DV format tape. <note> This command is ignored while a search control command is being processed.</note>

■ Counter control commands

Sends data of computer	Return data from VTR	Presets the designated counter value on the CTL counter. The value will be corrected as follows if the non-drop frame preset value has been set while the drop frame mode is established. ○○01:00:00 → ○0:00:59:28 ○○01:00:00 → ○0:00:59:29 <note> This command is ignored while a search control command is being processed or while the tape is being ejected.</note>		
[STX] CCP:data [ETX] Parameters data = ghrmmssff g = Blank: With a positive value — sign: With a negative value h = 0 - 9: Hours mm = 00 ~ 59: Minutes ss = 00 ~ 59: Seconds ff = 00 ~ 29: Frames	(STX) CCP (ETX)			
(STX) CDF (ETX)	(STX) CDF (ETX)	Disables the drop frame mode setting. CTL and the time code are set to the non-drop frame mode. The non-drop frame is enabled for the time code when it is being recorded. <notes a="" and="" being="" command="" control="" during="" ignored="" in="" insert="" is="" mode.<="" processed,="" recording="" search="" td="" the="" this="" while=""></notes>		
[STX] CDN (ETX]	(STX) CDN (ETX)	Enables the drop frame mode setting. CTL and the time code are set to the drop frame mode. The drop frame is enabled for the time code when it is being recorded. Notes This command is ignored while a search control command is being processed, during recording and in the INSERT mode.		
(STX) CHM:m (ETX) Parameters m = 1: 12-hour mode 2: 24-hour mode	[STX] CHM (ETX)	Sets the CTL display to the 12-hour mode or 24-hour mode Note This command is ignored while a search control command is being processed.		

■ Counter control commands

Sends data of computer	Return data from VTR	Description of command
Parameters data = ghrmmssff = Blank: With a positive value	(STX) CLP (ETX)	Presets the designated counter value on the CTL counter. The value will be corrected as follows if the non-drop frame preset value has been set while the drop frame mode is established. 00:01:00:00 → 00:00:59:28 00:01:00:01 → 00:00:59:29 Note> This command is ignored while a search control command is being processed or while the tape is being ejected.
STX CRN:m [ETX] Parameters	[STX] CRN [ETX]	Sets the signal to be regenerated when the TCG (time code generator) is set to the regeneration mode. <note> This command is ignored while a search control command is being processed.</note>
(STX) CAR (ETX)	(STX) CRR (ETX)	Uses the TCG in the REC RUN mode. The TCG counts up during recording. The default value can be set using the CTS command. <note> This command is ignored while a search control command is being processed, during recording and in the INSERT mode.</note>
(STX) CRT (ETX)	(STX) CRT [ETX]	Resets the CTL counter data. This command is ignored while a search control command is being processed.
[STX] CTC [ETX]	[STX] CTC [ETX]	Uses the reference data for searching and for the display mode of the counter display as the time code data. <note> This command is ignored while a search control command is being processed.</note>
(STX) CTF (ETX) (STX) CTF (ETX)		Uses the TCG in the FREE RUN mode. The TCG continues to count up at all times regardless of the mode. The default value can be set using the CTS command. The TCG starts counting up upon completion of the settings and when the VTR's power is turned back on. <note> This command is ignored while a search control command is being processed, during recording and in the INSERT mode.</note>
[STX] CTL [ETX]	[STX] CTL [ETX]	Uses the reference data for searching and for the display mode of the counter display as the CTL data. Atoles- This command is ignored while a search control command is being processed.
STX CTM:m (ETX) STX CTM (ETX)		Sets the mode used by the TCG. <hote> This command is ignored while a search control command is being processed, during recording and in the INSERT mode.</hote>

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■ Counter control commands

Sends data of computer	Return data from VTR	Description of command
(STX) CTP (ETX)	(STX) CTP (ETX)	Uses the TCG in the preset mode. The TCG starts counting up in the REC RUN mode upon completion of the settings. <note> This command is ignored while a search control command is being processed, during recording and in the INSERT mode.</note>
[STX] CTR [ETX]	(STX) CTR (ETX)	Uses the TCG in the regeneration mode. <note> This command is ignored while a search control command is being processed, during recording and in the INSERT mode.</note>
STX CTS:data [ETX]	(STX) CTS (ETX)	Presets the TCG data. The value will be corrected as follows if the non-drop frame preset value has been set while the drop frame mode is established. 0:01:00:00 → 00:00:59:28 00:01:00:01 → 00:00:59:29 Error code ER001 is returned from the VTR when the TCG is used in the regeneration mode or external VITC mode. Note> This command is ignored while a search control command is being processed.
STX CUS:data [ETX] Parameters data = UT/40I/SU4U7U3U2U1U0 The input user bit data is set in ASCII code. UB data: Binary 4BIT×8 ASCII code: 0~9, A~F	(STX) CUS (ETX)	Presets the user's bit data in the TCG. Error code EROD1 is returned from the VTR when the TCG is used in the regeneration mode or external VITC mode. Notes This command is ignored while a search control command is being processed.
[STX] CVP:deta [ETX] Parameters data = ppqq pp = 10 - 20: Insertion line 1 qq = 10 - 20: Insertion line 2 pp ≠ qq (the same value cannot be designated for both pp and qq)	(STX) CVP (ETX)	Specifies two lines where the external VITC signal is to be inserted. <note> This command is ignored while a search control command is being processed, during recording and in the INSERT mode.</note>

■ Display control commands

Sends data of computer	Return data from VTR	Description of command
STX] DFC:m [ETX] Parameters m ≈ C: CTL mode T: TC mode U: UB mode R: REMAIN mode	(STX) DFC (ETX)	Sets the display mode of the counter display and the reference data for searching. CTL data reference: CTL mode TC data reference: TC mode, UB mode, REMAIN mode <note> This command is ignored while a search control command is being processed.</note>

■ Edit control commands

Sends data of computer	Return data from VTR	Description of command
[STX] EAB:m [ETX] Parameters m = N: AUTO BACK ON F: AUTO BACK OFF	[STX] EAB [ETX]	Sets whether auto back recording is to be performed to ensure frame to frame continuity. <note> This command is Ignored while a search control command is being processed and during auto back.</note>
STX EAD:m [ETX] Parameters m = 0; CH1 & CH2 1; CH1 & CH2 2; CH2 No parameter: CH1 & CH2	(STX) EAD (ETX)	Sets the VTR to the AUDIO INSERT PAUSE mode, the when the VTR is in the VIDEO INSERT PAUSE mode, the command sets it to the AUDIO/VIDEO INSERT PAUSE mode. When it is in the REC INHIBIT mode, error code EROO1 is returned from the VTR and the VTR is set to the STOP mode. <note> This command can be accepted when the VTR is in the PLAY PAUSE mode or STILL mode.</note>
(STX) EIN (ETX)	(STX) EIN (ETX)	Sets the VTR to the VIDEO INSERT PAUSE mode, the command sets it to the AUDIO/IDEO INSERT PAUSE mode, the command sets it to the AUDIO/IDEO INSERT PAUSE mode. When it is in the REC INHIBIT mode, error code EROO1 is returned from the VTR and the VTR is set to the STOP mode. Note> This command can be accepted when the VTR is in the PLAY PAUSE mode or STILL mode.
STX EFE:data (ETX Parameters data = wghrmmssf! w = M: Mode for recording for 26 seconds E: Mode for recording as far as the tape end ghrmmssf! = Reference point during editing (recording start point)	[STX] EFE (ETX)	Initiates lirst edit (recording to prepare the tape to be used tor editing). In order to conduct editing with the position designated by the parameter as the reference point for editing, TC or CTL is preset using the value 23 seconds before the reference point, and the black burst wideo signal and muted audio signals are recorded for 26 seconds or until the tape end. If the OSP (STOP) command has been issued during operation, error code ER123 will be returned from the VTR which is then set to the STOP mode. If the VTR's operation mode has been changed by operating the controls on its front panel, error code ER121 will be returned from the VTR which is then set to the STOP mode. If the tape end position is reached during operation, error code ER120 will be returned from the VTR which is then set to the STOP mode. Notes This command is ignored while a search control command is being processed and in any of the following modes. EJECT, REC, REC PAUSE, INSERT, INSERT PAUSE

<Note>

Make the menu item changes listed below when performing insert editing or assemble editing. If these changes are not made, the editing operations may not be conducted properly.

Menu item	Setting	Setting command	
AUTO BACK	ON	EAB:N	
TC MODE	I-REG	CTM:2	
TCG REGEN	TC & UB	CRN:0	
MEMORY MODE	OFF	SMM:F	
STILL TIMER	2 min	TST:0200	

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■ Media operation control commands

Sends data of computer	Return data from VTR	Description of command Sets the VTR's operation mode when the tape and position is reached during recording. <note> This command is ignored while a search control command is being processed.</note>		
[STX] HRE:m [ETX] Parameters m = S: STOP R: REWIND E: EJECT M: REWIND and EJECT	(STX) HRE (ETX)			
[STX] HTE:m [ETX] Parameters m = S: STOP R: REWIND E: EJECT M: REWIND and EJECT	(STX) HTE (ETX)	Sets the VTR's operation mode when the tape end position is reached during playback. <note> This command is ignored while a search control command is being processed.</note>		
[STX] HTI:m [ETX] Parameters m = S: STOP W: REWIND P: PLAY M: PLAY PAUSE	(STX) HTI (ETX)	Sets the VTR's operation mode when the tape is inserted. <note> This command is ignored while a search control command is being processed.</note>		

■ input/output control commands

Sends data of computer	ata of computer Return data from VTR Description of command		Return data from VTR					
STX IEV:data ETX Parameters data = m1 m2 m1 = 0 ~ F; Designates the data m2 = 0 ~ F; Designates the data m2 = 0 ~ F; Designates the data bit 3 to bit 0.		(STX) IEV (ETX)			playbe When output The for restor <note This c</note 	Forcibly switches to the E-E (electric modulation to elect playback) output. When the V-I (VTR to VTR recording) output is the picts output status, it is forcibly switched to the E-E output. The forced E-E output is released and the normal status restored by IEV:00. <note> This command is ignored while a search control comman is being processed.</note>		output iii the pictur e E-E output. he normal status i
Parameter		m1 (HEX	display)		m2 (HEX	display)	
Bits supported	B1T7	віт6	BIT5	BIT4	ВІТЗ	BIT2	BIT1	BiTO
Switching data	0	0	0	0	AUDIO CH1	AUDIO CH2	VIDEO	тс

■ Operation control commands

Sends data of computer	Return data from VTR	Description all command
[STX] OAF [ETX]	(STX] OAF [ETX]	Advances the tape trame by frame in the forward direction.
[STX] OAR [ETX]	[STX] OAR [ETX]	Advances the tape frame by frame in the reverse direction,
[STX] OBF (ETX)	[STX] OBF [ETX]	Sets the VTR to the standby OFF mode. <note> This command can be accepted when the VTR is in the STOP mode, PLAY mode or STILL mode.</note>
(STX) OBN (ETX)	(STX) OBN (ETX)	Sets the VTR to the standby ON (STOP) mode. <note> This command can be accepted when the VTR is in the standby OFF mode.</note>
[STX] OEJ [ETX]	[STX] OEJ (ETX)	Ejects the cassette tape.
[STX] OFF [ETX]	[STX] OFF [ETX]	Fast forwards the tape.
[STX] OPA [ETX]	[STX] OPA (ETX)	Sets the VTR to the pause mode (REC PAUSE or PLAY PAUSE) or the pause release mode (REC or PLAY).
(STX) OPL [ETX]	(STX) OPL (ETX)	Plays back the lape.
[STX] OPR [ETX]	[STX] OPR [ETX]	Plays the tape (at the shuttle -1x speed) in the reverse direction.
STX OPT:data (ETX Parameters data = wghrmssff	[STX] OPT (ETX)	Plays back the tape to the position designated by the parameter. Upon completion of playbeck, the VTR is set to the STILL mode. If the designated position is before the current position, the tape is not played back, and the VTR is set to the STILL mode. When the OSP (STOP) command or OEJ (tape EJECT) command is issued during operation, error code ER123 is returned from the VTR. If the VTR's operation mode has been changed by operating the controls on its front panel, error code ER121 will be returned from the VTR. If the tape end position is reached during operation, error code ER120 will be returned from the VTR. This command is ignored while a search control command is being processed and in any of the following modes. EJECT, REC, REC PAUSE, INSERT, INSERT PAUSE
(STX) ORC (ETX)	[STX] ORC [ETX]	Sets the VTR to the recording mode. When the VTR is in the REC INHIBIT mode, error code ER001 will be returned from the VTR which is then set to the STOP mode.
(STX) ORP (ETX)	(STX) ORP (ETX)	Sets the VTR to the REC PAUSE mode. When the VTR is in the REC INHIBIT mode, error code ER001 will be returned from the VTR which is then set to the STOP mode.
[STX] ORW [ETX]	[STX] ORW [ETX]	Rewinds the tape.

<Note>

Refer to the RS-232 mode transition table (on pages 71, 72) for the conditions under which the operation control commands are accepted.

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■ Operation control commands

Sends data of computer	Return data from VTR	Description of command Controls the tape playback speed. Set the VTR to the STILL PAUSE mode using the OSL command, and send the OSD command. Each time the OSD command is sent, the playback speed shifts by one setting in the direction of the arrows below. If the lowest playback speed is already set, the speed does not shift any further, and error code ER001 is returned from the VTR. [In the case of a DVCPRO format tape +32.0 + 18.0 + 9.5 + 4.1 + 1.85 + 1 + 4.43 + 40.3 + 40.1 +0.03 + STILL + -0.03 + -0.1 + -0.3 + -0.43 + -1 + -1.85 + -4.1 + -9.5 + -16.0 + -32.0 [In the case of a DV format tape +32.0 + 16.0 + 9.5 + 9.5 + 9.5 + 9.3 + 1.85 + +1 + 4.55 + +0.3	
[STX] OSD [ETX]	(STX) OSD (ETX)		
		+0.1 +0.03 + STILL + -0.03 + -0.1 + -0.3 + -0.5 + -1 + -1.85 + -3.1 + -9.5 + -16.0 + -32.0	
STKI OSF:n (ETX Parameters	(STX) OSF (ETX)	Sets the tape playback speed in the forward direction.	
[STX] OSL [ETX]	[STX] OSL [ETX]	Sets the VTR to the STILL PAUSE mode. The OSD command and OSU command are accepted afte the VTR has been set to the STILL PAUSE mode by the OSL command.	
[STX] OSP [ETX]	[STX] OSP [ETX]	Sets the VTR to the STOP mode. When the VTR is in the STANDBY OFF mode, it is set to STANDBY ON.	

<Note>

Refer to the RS-232 mode transition table (on pages 71, 72) for the conditions under which the operation control commands are accepted.

■ Operation control commands

Sends data iii computer	Return data from VTR	Description of command
(STX) OSR:n [ETX] Parameters • in the case of a DVCPRO format tape □ = 0: STILL 6: ×1.85 1: ×0.03 7: ×4.1 2: ×0.1 8: ×9.5 3: ×0.3 9: ×16.0 4: ×0.43 A: ×32.0 5: ×1 • in the case of a DV format tape □ = 0: STILL 6: ×1.85 1: ×0.03 7: ×3.1 2: ×0.1 8: ×9.5 3: ×0.3 9: ×16.0 4: ×0.5 A: ×32.0 5: ×1	(STX) OSR (ETX)	Sets the tape playback speed in the reverse direction.
(STX) OSU (ETX)	(STX) ŌSU (ETX)	Controls the tape playback speed. Set the VTR to the STILL PAUSE mode using the OSL command, and send the OSU command. Each time the OSU command is sent, the playback speed shifts by one setting in the direction of the arrows below. If the highest playback speed is already set, the speed does not shift any turther, and error code ER001 is returned from the VTR. In the case of a DVCPRO format tape $-32.0 - 116.0 - 9.5 + -4.1 \times -1.85 \times -1 \times -0.43 \times -0.3 \times -0.1 -0.03 \times STILL \times +0.03 \times +0.1 \times +0.3 \times +0.43 \times +1 \times +1.85 \times +4.1 \times +9.5 \times +16.0 \times +32.0$ In the case of a DV format tape $-32.0 \times -16.0 \times -9.5 \times -3.1 \times -1.85 \times -1 \times -0.5 \times -0.3 \times -0.1 -0.03 \times STILL \times +0.03 \times +0.1 \times +0.3 \times +0.5 \times +1.1 \times +1.85 \times +3.1 \times +9.5 \times +16.0 \times +32.0$
STX OTE:m [ETX] Parameters	(STX) OTE (ETX)	Selects whether to set E-E output or V-V output when the VTR is in the STOP mode, FF mode or REW mode.

<Note>

Refer to the RS-232 mode transition table (on pages 71, 72) for the conditions under which the operation control commands are accepted.

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Sends data of computer	Return data from VTR	Description of command
[STX] QAL (ETX)	[STX] ALVO [ETX]	Supports only address level 0 of the MIS standards.
[STX] QAO (ETX)	(STX) AOm (ETX) m ≈ 1: CH1 2: CH2 3: CH3 4: CH4 5: CH1 & CH2 6: CH3 & CH4 7: CH1+3 & CH2+4	Queries the audio signal output channel or channels.
[STX] QCA (ETX)	[STX] CUPdata [ETX] data * U7U6U5U4U7U3U2U1U0	Queries the user's bit data which was preset in the TCG.
[STX] QCB [ETX]	[STX] CUSdata [ETX] data = U7U6U5U4U7U3U2U1U0	Queries the user's bit data of the TCG.
[STX] QCC [ETX]	(STX) CCPdata (ETX) data = ghmmss • in the case of CTL data g = Blank: With a positive value - sign: With a negative value h = 0 - 9: Hours mm = 00 ~ 59: Minutes ss = 00 ~ 59: Seconds • in the case of TC data gh = 00 ~ 23: Hours mm = 00 ~ 59: Minutes ss = 00 ~ 59: Seconds	Oueries the current counter data (second increments). The following data is returned from the VTR, depending on the mode which appears on the counter display. CTL mode: CTL data TC mode, UB mode, REMAIN mode: TC data
[STX] OCD (ETX)	[STX] CDdata [ETX] data = fwghmmssff e	Queries the current counter data. The following data is returned from the VTR, depending on the mode which appears on the counter display. CTL mode: CTL data TC mode, UB mode, REMAIN mode: TC data

■ Query control commands

Sends data of computer	Return data from VTR	Description of command				
(STX) OCE (ETX)	[STX] CTEdata [ETX] data = hhmmssft hh = 00~23: Hours mm = 00~59: Minutes ss = 00~59: Seconds ff = 00~29: Frames	Queries the time data which was preset in the TCG.				
[STX] QCF [ETX]	(STX) CDm (ETX) m = N: Drop frame mode F: Non-drop frame mode	Queries this drop frame mode.				
[STX] QCM (ETX)	[STX] CHMm [ETX] m = 1: 12-hour mode 2: 24-hour mode	Queries whether the CTL display is in the 12-hour mode or 24-hour mode.				
(STX) QCP (ETX)	[STX] CVPdate [ETX] data = ppqq pp = Insertion line 1 qq = Insertion line 2	Oueries the setting of the two lines in which the external VITC signal is to be inserted.				
[STX] OCR [ETX]	[STX] CRNm [ETX] m = 0: TC & UB 1: TC 2: UB	Oueries the REGEN (regeneration) signal when the TCG (time code generator) is set to the regeneration mode.				
(STX) QCS (ETX)	(STX) CTSdata ETX data = hhmmssff hh = 00 ~ 23: Hours mm = 00 ~ 59: Minutes ss = 00 ~ 59: Seconds ff = 00 ~ 29: Frames	Queries the TCG's time data.				
(STX) QCT (ETX)	[STX] CTdeta [ETX] data = mm mm = FR: Regeneration mode RP: REC RUN mode FP: FREE RUN mode VR: External VITC mode	Queries the mode in which the TCG is to be used.				
[STX] QCU [ETX]	[STX] CURdata [ETX] data = U7U6U5U4U7U3U2U1U0	Queries the user's bit data of the TCR.				
[STX] QCW [ETX]	STX CTMm ETX m = 0; REC RIVN mode 1; FREE RIVN mode 2; Regeneration mode 3; External VITC mode	Queries the mode in which the TCG is to be used.				
[STX] QCZ [ETX]	[STX] CTZm [ETX] m = 0: Read NG 1: Read OK	Queries the TCR read status.				
(STX) QDF (ETX)	[STX] DFCm {ETX] m = C: CTL mode T: TC mode U: UB mode R: REMAIN mode	Oueries the display mode of the counter display.				

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Sends data of computer	Return data from VTR	Description of command Queries the auto back recording setting.			
(STX) QEB [ETX]	[STX] EABm [ETX] m ≈ N: AUTO BACK ON F: AUTO BACK OFF				
(STX) QHC (ETX)	[STX] HCMdata [ETX] data = C1C2C3C4 C1 = I: Cassette in O: Cassette out C2 = E: Recording enabled D: Recording disabled N: No tape C3 = S: S size cassette M: M size cassette L: L size cassette N: No tape C4 = D: DV format P: DVCPRO format C: DVCAM format N: No tape	Oueries the cassette tape information.			
[STX] QHE [ETX]	m = S: STOP R: REWIND E: EJECT M: REWIND and EJECT	Queries the VTR's operation mode when the tape end position has been reached during any operation except recording.			
[STX] QHI (ETX)	(STX) HTIM (ETX) m = S: STOP W: REWIND P: PLAY M: PLAY PAUSE	Queries the VTR's operation mode when the tape has be inserted.			
(STX) QHR (ETX)	[STX] HTRdata [ETX] data = hhmmss hh = 00~23: Hours mm = 00~59: Minutes ss = Fixed at 00: Seconds	Queries the amount of remaining tape. If this is not determined or the tape has been ejected, data = FFFFFF is returned.			
[STX] QHT (ETX)	(STX) HREm (ETX) m = S: STOP R: REWIND E: EJECT M: REWIND and EJECT	Queries the VTR's operation mode when the tape end position is reached during recording.			
[STX] QIC [ETX]	[STX] 1 [ETX]	Queries the product classification code. This unit returns tape equipment "1."			
[STX] OID [ETX]	[STX] data [ETX] data = AJ-D250 AJ-D230	Oueries the equipment's ID code. The ID code corresponding to the setting of Setup Menu No. 205 "232C ID SEL" is returned. (See page 30) With the factory settings, tape equipment "AJ-D250" is returned.			

■ Query control commands

Sends data of computer		Return data from VTR				Description of command			
(STX) OIE (ETX)	m1 :	[STX] iEVdata [ETX] data = m1m2 m1 = 0 - F: Designates the data to bit 4. m2 = 0 ~ F: Designates the data to bit 0.							
Parameter		m1 (HEX display)				m2 (HEX display)			
Bits supported	ВІТ7	ВІТ6	BIT5	BIT4	ВІТ	3	BIT2	BIT1	ВІТО
Switching data	0	0	0	0	AUDIO CH		AUDIO CH2	VIDEO	тс
STX QLH:m [ETX] Parameters Parameters m = D: Cumulative drum rotation time T: Cumulative capstan rotation time No parameter: Cumulative drum rotation time (4 digits) STX QOT [ETX]	m = n hhhh • W Th is da hh m = E- pla	m = E:				Querie	es the current vali es whether to set the VTR is in the	to the E-E outpu	t or V-V output

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Sends data of computer	Return data from VTR	Description of command			
[STX] QOP [ETX]	ISTXI data [ETX] data = OSP: STOP OEJ: EJECT OFF: FAST FORWARD OSP: SHUTTLE FORWARD OPP: PLAY OPP: PLAY OPP: PLAY PAUSE ORC: REC ORP: REC PAUSE OBP: STANDBY OFF SCS: COUNTER SEARCH (PLAY) SRS: COUNTER SEARCH (FLAY) SRS: COUNTER SEARCH (STILL) SUB: UB SEARCH STP: PLAY TO OPT: P	Queries the VTR's operation mode. The current VTR mode is detected, and the status command is returned.			
STX QOD:d1d2 [ETX Parameters d1 = 0 ~ F: Designates the status data number. d2 = 0 ~ F: Designates the number of status data bytes.	[STX] OASdata [ETX] data = ADoAD1AD2AD3AD4AD5AD6AD7AD6 AD9AD0ADBADCAD0ADEADF <td colspan="3">Queries the operation modes. The current VTR mode is detected, and the bitmap information is returned. The bitmap information is convented into ASCII code and returned by the VTR. <note> When a setting exceeding ADDRESSF has been set by parameter, no guarantees are given for the data followin ADDRESSF.</note></td>	Queries the operation modes. The current VTR mode is detected, and the bitmap information is returned. The bitmap information is convented into ASCII code and returned by the VTR. <note> When a setting exceeding ADDRESSF has been set by parameter, no guarantees are given for the data followin ADDRESSF.</note>			

Bitmap table (A)

ADDRESS	BIT7	вітє	віт5	BIT4	ВІТЗ	BIT2	BIT1	Віто
AD 0	o	0	CASSETTE	RF VIDEO MISSING	TAPE TROUBLE	HARD ERROR	0	LOCAL or MENU
AD 1	STANDBY	0	STOP	EJECT	REW	FF	REC	PLAY
AD 2	SERVO LOCK	o	SHUTTLE	0	0	TAPE DIRECTION	STILL	CUE UP COMPLETE
AD 3	0	0	0	0	0	0	0	0
AD 4	SELECT EE	FULL EE	0	EDIT	0	0	0	CUE UP
AD 5	o	INSERT	0	VIDEO	0	0	AUDIO CH2	AUDIO CH1
AD 6	0	LAMP STILL	LAMP FWD	LAMP REW	LAMP SPEED3	LAMP SPEED2	LAMP SPEED1	LAMP SPEEDO
AD 7	0	0	0	0	0	0	0	0
AD 8	0	0	0	0	0	0	0	REC INHIBIT
AD 9	0	0	0	0	0	0	0	0
AD A	0	0	0	0	0	0	0	0
AD B	0	0	0	0	0	0	0	0
AD C	0	0	0	0	0	0	0	0
AD D	0	0	0	0	0	0	0	0
AD E	0	0	0	0	0	0	0	. 0
AD F	0	0	0	0	0	0	0	0

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Sends data of computer	Return data from VTR	Description of command			
(STX) QOS (ETX)	[STX] OPSdata [ETX] data = ADoAD1AD2AD3AD4 <note> Refer to the bitmap table (B) for details of AD *.</note>	Queries the operation modes. The current VTR mode is detected and sent by the bitmap information. The bitmap information is converted into ASCII code and returned by the VTR.			
[STX] QRA [ETX]	[STX] RAm (ETX) m = N: ACK ON F: ACK OFF	Queries the ACK (Acknowledge) code response setting.			
(STX) QRS (ETX)	STX RSEm ETX m = 0: Normal 1: No completion command No completion command/No error	Queries the search end mode setting.			
STX] ORV:m (ETX) Parameters	[STX] VERdata [ETX] data = d1d2.d3d4-d5d6-d7.d8d9 d1 ~ d9: Software program version	Queries the software program version used for each microcomputer.			
(STX) QSM (ETX)	(STX) SMMm (ETX) m = S: MEMORY STOP O: REPEAT ONE TIME A: CONTINUE F: OFF	Queries the memory mode.			
[STX] QSY [ETX] (STX] SMILPdata [ETX] data = wwghmmssff ww = LP: CTL data reference SP: TC data reference 9 = Blank: With a positive valu - sign: With a negative valu h = 0~9: Hours rmr = 00 - 59: Minutes ss = 00 - 59: Seconds ff = 00 ~ 29: Frames					

Bitmap table (B)

ADDRESS	SS BIT7 BIT6		BITS	5 BIT4 BIT3		BIT2	BIT1	BITO	
AD 0	FULL EE	SELECT EE	0	0	0 0		TAPE END (*)	TAPE TOP	
AD 1	SHORT PLAY	0	STANDBY	0	0 0		0	SERVO LOCK	
AD 2	REC INHIBIT TAB	CASSETTE IN/OUT	0	VTR STATUS					
AD 3	TAPE DIRECTION		SHUTTLE SPEED						
AD 4	0	INSERT VIDEO	INSERT AUDIO CH1	INSERT AUDIO CH2	0	0 -	0	0	

VTR STATUS DATA

IT4 ~ 8ITO	VTR STATUS	BIT4~BIT0	VTR STATUS
, 1, 1, 1, 1	INSERT PAUSE	0, 1, 0, 0, 1	PLAY PAUSE
, 1, 1, 1, 0	INSERT	0, 1, 0, 0, 0	PLAY
0, 1, 1, 1, 0	SEARCH	0, 0, 0, 1, 1	FAST FORWARD
, 1, 1, 0, 1	AUDIO INSERT PAUSE	0, 0, 0, 1, 0	REWIND
), 1, 1, 0, 0	AUDIO INSERT	0, 0, 0, 0, 1	EJECT
0, 1, 0, 1, 1	RECORDING PAUSE	0, 0, 0, 0, 0	STOP
0, 1, 0, 1, 0	RECORDING		

SHUTTLE SPEED DATA

BIT4 \sim BIT0	SHUTTLE SPEED	BIT4 ~ BITO	SHUTTLE SPEED
60	(±) 9.5× or more	2A	(±) 0.2× or more but less than (±) 0.43×
59	(±) 3.0× or more but less than (±) 9.5×	20	(±) 0.1× or more but less than (±) 0.2×
4A	(±) 1.85× or more but less than (±) 3.0×	13	(±) 0.03× or more but less than (±) 0.1×
40	(±) 1.0× or more but less than (±) 1.85×	00	STILL
36	(±) 0.43× or more but less than (±) 1.0×		

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■ Query control commands

Sends data of computer	Return data from VTR	Description of command
[STX] OSP:m [ETX] Parameters m = B: BEGIN point E: END point	[STX] SMPdata [ETX] data = pw:ghrmmssft • When CTL data Is to be used as the reference pw = BP: BEGIN point EP: END point g = Blank: With a positive value	Oueries the repeat position which has been stored in the memory. Error code ER001 is returned from the VTR when the data has not been entered.
[STX] ΟΤΤ [ΕΤΧ]	(STX TSTdata [ETX] data = mmmm mmmm = 0000: 0.5 sec. 0005: 5 sec. 0010: 10 sec. 0030: 30 sec. 0100: 1 min. 0200: 2 min.	Queries the standby OFF timer which has been stored in the memory.
(STX) QVI (ETX)	[STX] Vim [ETX] m = L: LiNE S: S-VIDEO D: OPTION	Queries the position of the INPUT SELECT switch.
[STX] QVM [ETX]	(STX) VMDm (ETX) m = A: Color B: Monochrome	Queries the color mode.

<Note * >
"1" is used as the TAPE END bit and TAPE TOP bit when the tape start or end is detected, and the bits are cleared to "0" when queried by the QOS command.

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■ Communication control commands

Sends data of computer	Return data from VTR	Description of command
[STX] RAN [ETX]	(STX) RAN (ETX)	Enables the return of the ACK (Acknowledge) code. <note> This command is ignored while a search control command is being processed.</note>
(STX) RAF (ETX)	(STX) RAF (ETX)	Disables the return of the ACK (Acknowledge) code. <note> This command is ignored while a search control command is being processed.</note>
[STX] RCK (ETX)	[STX] RCK [ETX]	Checks whether communication is established. «Note» This command is ignored while a search control command is being processed.
STX RSE:m ETX Parameters m = 0: Normal 1: No completion command 2: No completion command/No error	[STX] RSE (ETX)	Sets the send timing and enable or disable for sending the search completion command. • Parameter setting: normal When search is commenced: ACK code is returned. When search is completed: STX

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■ Search control commands

Sends data of computer	Return data from VTR	Description of command
STX SCP:data [ETX]	[STX] SCP [ETX]	Searches the counter value which was designated by the parameter. Playback is commenced upon completion of the search. If the designated position is an illegal position does not exist), error code ER122 will be returned from the VTR, which is then set to the STOP mode. When the OSP (STOP) command or OEJ (tape EJECT) command is issued during operation, error code ER123 is returned from the VTR. If the VTR's operation mode has been changed by operating the controls on its front panel, error code ER121 will be returned from the VTR. If the tape end position is reached during operation, error code ER120 will be returned from the VTR. When data differing from the data used as the reference has been sent, error code ER001 will be returned from the VTR. NOte> This command is ignored while a search control commans is being processed and in any of the following modes. EJECT, REC, REC PAUSE, INSERT, INSERT PAUSE
STX SCS:data ETX	(STX) SCS (ETX)	Searches the counter value which was designated by the parameter. The STILL mode is established upon completion of the search. If the designated position is an illegal position (the terget position does not exist), error code ER122 will be returned from the VTR which is then set to the STOP mode. When the OSP (STOP) command or OEJ (tape EJECT) command is issued during operation, error code ER123 is returned from the VTR. If the VTR's operation mode has been changed by operating the controls on its front panel, error code ER12 will be returned from the VTR. If the tape and position is reached during operation, error code ER12 will be returned from the VTR. When date differing from the data used as the reference has been sent, error code ER001 will be returned from the VTR. Note> This command is ignored while a search control comman is being processed and in any of the following modes. EJECT, REC, REC PAUSE, INSERT, INSERT PAUSE

■ Search control commands

Sends data of computer	Return data from VTR	Description of command
STX SMI:data {ETX Parameters Cata = xweyhrmssff SMI:data = Ween the counter value Bit to be stored in the memory ww = LC: CTL data reference SC: TC data reference SC: TC data reference SC: TC data reference SC: TC data serves as the reference Bit to be stored in the memory ww = LP: CTL data reference SMI: SMI: SMI: SMI: SMI: SMI: SMI: SMI:	[STX] SMI [ETX]	Stores the counter value and parameter value in the memory at the time when this command is received. <note> This command is ignored while a search control command is being processed.</note>
[STX] SMM:m [ETX] Parameters = S: MEMORY STOP O: REPEAT ONE TIME A: CONTINUE F: OFF	[STX] SMM [ETX]	Sets the memory mode. <note> This command is ignored while a search control command is being processed.</note>

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■ Search control commands

Sends data of computer	Return data from VTR	Description of command
[STX] SMP:data [ETX]	(STX) SMP (ETX)	Sets the repeat position.
Parameters		When the BEGIN point and END point have been
data = pww:ghmmssff		designated in different modes, they are converted inside the
 When the counter value in to 		VTR and set in the mode which was last designated.
be stored in the memory		Parameter "ff" is processed as "00" inside the VTR.
p = B: BEGIN point		<note></note>
E: END point		This command is ignored while a search control command
ww = LC: CTL data reference		is being processed.
SC:TC data reference		
"ghmmssff" is omitted.		1
When the parameter value for		1
which the CTL data serves as]
the reference is to be stored in		
the memory		· ·
p = B: BEGIN point		
E: END point		
ww = LP: CTL data reference		
g = Blank: With a positive value		
- sign: With a negative value		
h = 0~9: Hours		
mm = 00 ~ 59: Minutes		
ss = 00 ~ 59: Seconds		
ff = 00 ~ 29: Frames		
When the parameter value for		
which the TC data serves as		
the reference is to be stored in		
the memory		
p = B: BEGIN point		· ·
E: END point		
ww = SP:TC data reference		·
gh = 00 ~ 23: Hours		
mm = 00 ~ 59: Minutes		
ss = 00~59: Seconds		
ff = 00~29: Frames		
When the designated position		
is not to be entered		
data =		
BN: No entry of BEGIN point		
EN: No entry of END point		
		1

■ Search control commands

Sends data of computer	Return data from VTR	Description of command
[STX] SMS [ETX]	(STX) SMS (ETX)	Searches the counter value at the time when the command stored in the memory was received. The STILL mode is established upon completion of the search. If the designated position is an illegal position (the target position does not exist), error code ER122 will be returned from the VTR which is then set to the STOP mode. When the OSP (STOP) command or OEJ (tape EJECT) command is issued during operation, error code ER123 is returned from the VTR. If the VTR's operation mode has been changed by operating the controls on its front panel, error code ER121 will be returned from the VTR. If the tape end position is reached during operation, error code ER120 will be returned from the VTR. When date differing from the data used as the reference has been sent or when the counter value has not been stored in the memory, error code ER001 will be returned from the VTR. <notes a="" and="" any="" being="" command="" control="" eject,="" following="" ignored="" in="" insert="" insert,="" is="" modes.="" of="" pause,="" pause<="" processed="" rec="" rec,="" search="" td="" the="" this="" while=""></notes>
STX SPT:date (ETX Parameters	(STX) SPT (ETX)	Plays the tape to the position which was designated by the parameter. The VTR is set to the STILL mode upon completion of playback. If the designated position is before the current position, the tape is not played back, and the VTR is set to the STILL mode. When the OSP (STOP) command or OEJ (tape EJECT) command is issued during operation, error code ER123 is returned from the VTR. If the VTR's operation mode has been changed by operating the controls on its front panel, error code ER121 will be returned from the VTR. If the tape end position is reached during operation, error code ER120 will be returned from the VTR. Note> This command is ignored while a search control command is being processed and in any of the following modes. EJECT, REC, REC PAUSE, INSERT, INSERT PAUSE

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■ Search control commands

Sends data till computer	Return data from VTR	Description of command
STX SRS:data [ETX] Parameters data = wghmmssff • When CTL data is to be used as the reference w = L: CTL data reference g = Blank: With a positive value h = 0~9: Hours mm = 00~99: Minutes ss = 00~59: Seconds fil = 00~29: Frames • When TC data is to be used as the reference w = S: TC data reference gh = 00~23: Hours mm = 00~59: Minutes ss = 00~59: Seconds fil = 00~23: Frames	(STX) SRS (ETX)	Searches the counter value which was designated by the parameter. The STILL mode is established upon completion of the search. If the designated position is an illegal position (the terget position does not exist), error code ER122 will be returned from the VTR, which is then set to the STOP mode. When the OSP (STOP) command or OEU (tape EJECT) command is issued during operation, error code ER123 is returned from the VTR. If the VTR's operation mode has been changed by operating the controls on its front panel, error code ER121 will be returned from the VTR. If the tape end position is reached during operation, error code ER120 will be returned from the VTR. When data differing from the data used as the reference has been sent, error code ER001 will be returned from the VTR. Note> This command is ignored white a search control command is being processed and in any of the following modes.
(STX) SUB:data (ETX) Parameters data = uuuuuuu:d u = 0 ~ F: User's bit value (* * is designated for a user's bit value which is not going to be searched) d = F: Forward direction R: Reverse direction	(STX) SUB (ETX)	EJECT, REC, REC PAUSE, INSERT, INSERT PAUSE Searches the start position of the user's bit which was designated by the parameter. The STILL mode is established upon completion of the search. The search is enabled when the same user's bit value continues for at least 5 seconds. When the OSP (STOP) command or OEJ (tape EJECT) command is issued during operation, error code ER123 is returned from the VTR. If the VTR's operation mode has been changed by operating the controls on its front panel, error code ER121 will be returned from the VTR. If the tape end position is reached during operation, error code ER120 will be returned from the VTR. <note> This command is ignored while a search control command is being processed and in any of the following modes. EJECT, REC, REC PAUSE, INSERT, INSERT PAUSE</note>

■ Timer control commands

Sends data of computer	Return data from VTR	Description of command				
[STX] TST:data [ETX] Parameters data = mmmm mmmm = 0000: 0.5 sec. 0005: 5 sec. 0010: 10 sec. 0030: 30 sec. 0100: 1, min. 0200: 2 min.	(STX) TST (ETX)	Sets the standby OFF timer. <note> This command is ignored while a search control command is being processed.</note>				

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■ Mode transition table

						VTR S	TATUS					
Return command	STOP	STANDBY OFF	EJECT	PLAY	REW	FF	PLAY PAUSE	REC	REC PAUSE	SHORT PLAY	AUTO BACK	SEARCH
OSP	_	0	×	0	0	0	0	0	0	0	0	0
OEJ	0	0	_	0	0	0	0	×	×	×	×	0
OPL	0	0	×	_	0	0	0	×	×	×	×	0
ORW	0	0	×	0	_	0	0	0	0	0	0	0
OFF	0	0	×	0	0		0	0	0	0	0	0
OPA	0	0	×	0	0	0	PLAY	REC PAUSE	REC	REC PAUSE	REC	. 0
ORC	0	0	×	0	0	0	0	_	0	0	0	0
ORP	0	0	×	0	×	×	0	0	_	0	0	×
EIN	×	×	×	×	×	×	0	×	×	×	×	×
EAD	×	×	×	×	×	×	0	×	×	×	×	×
EFE	0	. 0	×	0	0	0	0	×	×	×	×	0
OAF	×	×	×	×	×	×	0	×	×	×	×	×
OAR	×	×	×	×	×	×	0	×	×	×	×	×
OPR	0	0	×	0	0	0	0	×	×	×	×	0
OSL	0	0	×	0	0	0	0	×	×	×	×	0
OSF	0	0	×	0	0	0	0	×	×	×	×	0
OSR	0	0	×	0	0	0	0	×	×	×	×	0
Search commands	0	0	×	0	0	0	0	×	×	×	×	0

- Notes>
 O : Operation changes to the return command mode.
 X : Error code ER001 is returned, and execution is disabled.
 : The operation mode is maintained.

OPA command: The current operation mode may be replaced by another operation mode when the OPA command is issued. Search commands: OPT, SCP, SCS, SMS, SPT, SRS, SUB

■ Mode transition table

I	VTR STATUS									
Return command	STILL	VIDEO INSERT	VIDEO INSERT PAUSE	AUDIO INSERT	AUDIO INSERT PAUSE	A/V INSERT	A/V INSERT PAUSE	FIRST	Processing Search Command (Cue Up, etc.)	
OSP	0	0	0	0	0	0	0	0	0	
OEJ	0	×	×	×	×	×	×	×	0	
OPL	0	×	×	×	×	×	×	×	×	
orw	0	×	×	×	×	×	×	×	×	
OFF	0	×	×	×	×	×	×	×	×	
OPA	PLAY	PLAY PAUSE	VIDEO INSERT	PLAY PAUSE	AUDIO INSERT	PLAY PAUSE	A/V INSERT	×	×	
ORC	0	×	×	×	×	×	×	×	×	
ORP	0	×	×	×	×	×	× .	×	×	
EIN	0	×	_	×	A/V INSERT PAUSE	×	_	×	×	
EAD	0	×	A/V INSERT PAUSE	×		×	_	×	×	
EFE	0	×	×	×	×	×	×	×	×	
OAF	×	×	×	×	×	×	×	×	×	
OAR	×	×	×	×	×	×	×	×	×	
OPR	0	×	×	×	×	×	. ×	×	×	
OSL	0	×	×	×	×	×	×	×	×	
OSF	0	×	×	×	×	×	×	×	×	
OSR	0	×	×	×	×	×	×	×	×	
Search commands	0	×	×	×	×	×	×	×	×	

<Notes>

O : Operation changes to the return command mode.

X : Error code ER001 is returned, and execution is disabled.

- : The operation mode is maintained.

OPA command: The current operation mode may be replaced by another operation mode when the OPA command is issued. Search commands: OPT, SCP, SCS, SMS, SPT, SRS, SUB

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(5) Checkpoints for RS-232C communication

■ Send commands and data returned from the VTR

 If the LOCAL/MENU/REMOTE switch on the front panel is not at the REMOTE position, it is not possible to exercise proper control using the RS-232C interface.

If any command except a Q (query) command is sent while this switch is not at the REMOTE position, error code ER001 is returned.

 After one of the following commands is sent, not all commands can be accepted until the processing of the sent command is completed.

OPT, SCP, SCS, SMS, SPT, SRS, SUB, EFE

Commands which can be accepted

- Q (query) commands
- OSP command (STOP)
- OEJ command (EJECT)

Error code ER001 is returned when a command other than one which can be accepted is sent.

■ Send command intervals

The AJ-D250 is a multi-microcomputer VTR. For this reason, it takes time (approx. 150 ms) for communication to be performed between the RS-232C interface microcomputer and system control microcomputer inside the VTR before any processing can be performed by the system control microcomputer inside the VTR. Therefore, leave an interval of at least 150 ms

before sending a command from the computer.

When \mathbf{z} problem has occurred in the unit, one of the following error messages will appear on the tape counter.

Error No.	Description	Error No.	Description	
d	Condensation (dew) has formed.	E51	The FG signal (rotational speed signal) is not output from the capstan motor.	
	Appears when the servo fails to lock for 3 or more seconds.	E-52	The capstan motor speed is abnormally high.	
€-00	When T&S&R is selected as the setup menu item No.001 setting, "SERVO NOT LOCKED" is	E - 53	The capstan motor speed is abnormally low.	
	displayed on the third line (line where the remaining tape amount is indicated) of the monitor screen.	E-61	The supply (S) reel motor is locked.	
	Appears when there is no head output for one or	E-62	The take-up (T) reel motor is locked.	
	more seconds (due to clogging, etc.). "L" is displayed on the first line (counter line) of the	E - 63	The supply reel motor speed is abnormally high.	
E-01	monitor screen. When T&S&R is selected as the setup menu item	E 64	The take-up reel motor speed is abnormally low.	
	No.001 setting, "LOW RF" is displayed on the third line (line where the remaining tape amount is	E - 65	Abnormal tension has been detected.	
	indicated) of the monitor screen. Appears when a blank area on the tape has been detected.	E 66	The start or end processing operation fails to be completed even after 7 or more seconds have elapsed.	
	"N" is displayed on the first line (counter line) of the monitor screen.	E-67	A communication error between SERVO and AVSYS. Errors in the data.	
E 09	When T&S&R is selected as the setup menu item No.001 setting, "NO RF" is displayed on the third line (line where the remaining tape amount is	E 68	A communication error between SERVO and AVSYS. The data is fixed at high or low.	
	indicated) of the monitor screen. When all the following conditions are met, the part of	E-69	A problem in communication between SERVO and AVSYS when the power was switched on.	
	the tape is recognized as a blank. • No output from any of the heads • Playback data cannot be read • No CTL signal	E-6B	This appears when there is a communication error between IF and AVSYS. There is a problem with the internal reference or external reference.	
E-11	The reel base which operates in line with the size of the tape has been locked for 2.5 or more seconds.		The fan motor has stopped, "S" is displayed on the first line (counter line) of the monitor screen,	
E-21	Four or more 4 seconds have elapsed after the cassette was inserted but the cassette is not lowered down inside the unit. Alternatively, 4 or more seconds have elapsed after the eject operation was initiated but the cassette is not ejected.	E70	When T&S&R is selected as the setup menu iten No.001 setting, "FAN STOP" is displayed on the third line (line where the remaining tape amount indicated) of the monitor screen. When about an hour elapses, the unit is shut downutomatically.	
E 31	The loading operation is not completed within 4 seconds.	E-72	There is a problem in the solenoid drive circuit.	
E — 32	The unloading operation is not completed within 4 seconds.	E-73	There is a problem in the cleaning solenoid drive circuit.	
E-41	The FG signal (rotational speed signal) is not output from the cylinder motor.			
E 42	The PG signal (phase signal) is not output from the cylinder motor.			
E - 43	The cylinder motor speed is abnormally high.			

Emergency Eject

Procedure for removing the tape manually in an emergency

Use the procedure below to remove the cassette tape if it can not be removed even when the EJECT button is pressed.

- . Before proceeding to eject the tape manually, you must first turn off the power to the unit.
- Remove the top panel.
- Use a Phillips head screwdriver to push in and turn the red plastic screw part counterclockwise. (This screw needs to be rotated about 30 turns before unloading can be started.)
- Insert the take-up jig (packed with the unit) into the tape ejection slot (on the mechanism side of the VTR), and rotate the flange part (white gear) of the supply reel in the take-up direction using the rubber part of the take-up jig to take up the tape slack.

<Note>

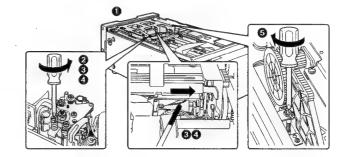
Take care not to damage the tape in any way.

- Use the Phillips head screwdriver to push in and turn the red plastic screw part counterclockwise once more. Again rotate the flange part of the supply reel in the take-up direction to take up the tape slack.
 - This two-step procedure needs to be repeated until the tape is completely housed in the cassette case (about 90 turns of the red plastic screw part).
- Use the Phillips head screwdriver to turn the red plastic screw part at the slot-in side clockwise to elect the cassette tape.

(This screw needs to be rotated through about 140 turns until the tape is ejected.)

<Note

Take care not to sandwich or catch the tape when closing the cassette cover.



The cylinder motor speed is abnormally low.

SECTION 2

SERVICE INFORMATION

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1. Error Rate Confirmation Procedure

The error rate is displayed on the AUDIO LEVEL METER in Service menu mode.. (When enters in Service men mode, the AUDIO LEVEL METER changes into the error display mode automatically.) CH1 indicator ON: Video Error Rate display mode. Video and Audio Error Rate display mode can be changed by press Audio Output Select button CH2 indicator ON: Audio Error Rate display mode. dB VIDEO/AUDIO CH₁ **ERROR RATE** VIDEO/AUDIO $A \leftarrow \downarrow$ When confirm the error rate, please refer to specification as indicated as below, then please set the some items on Service menu follow the indicated as below table. ≪Specification of Error Rate≫ Mode Specification of Error Rate DVCPRO (PB Head) Alignment Tape Playback Under the "A" position at Level Meter **DVCPRO (PB)** DVCPRO (RP) DVCPRO (RP Head) Alignment Tape Playback Under the "B" position at Level Meter Under the "C" position at Level Meter DV (RP Head) Alignment Tape Playback DV (R/P) ≪Setting of Service Menu≫ **DVCPRO** DVCPRO MENU DV Playback (PB Head Playback) (RP Head Playback) **B11: ERROR MODE FAST FAST FAST** PB H RP H B05: PB HEAD RP H ON B03: VITERBI ON ON Audio Lch ERROR RATE Audio Rch **CH CONDITION DVCPRO** DV Playback Playback (Video Lch) (Video Rch) Comparison dB [Red Red CH CONDITION ٥Г Blue LAMP -4 [Blue -8 [-12 -16 L Green -20 Green -25 -30 [

-∞ [

2. Service Menu Information

< To transfer from normal mode to Service Menu mode >

- (1) Set the bit 2 of DIP SW60902 on the AV SYSCON P.C.Board to ON position.
- (2) Set the 「LOCAL / MENU / REMOTE」 select switch on the Front Panel to "MENU" position, then Main menu of Service menu appeared on the screen as indicated as below.

<Main Menu>

SERVICE-MENU No. A00

* A00 : SERVO ADJUST B00 : MODE SELECT C00 : REC ADJUST D00 : PB ADJUST E00 : EQ ADJUST

> F00: VIDEO ADJUST F80: TBC ADJUST

END

- (3) Move the star mark "*" by [UP] (FF) or 「DOWNJ(STOP) button on the front panel for select the each Sub menu item.
- (4) Press the SET button, then open the Sub-menu follow the selected item (A00 to F80) on the Main menu.
- (5) For change the value or setting, press the [DATA+] (PAUSE) or 「DATA-」 (PLAY) button.
- (6) Set the 「LOCAL / MENU / REMOTE」 select switch on the Front Panel to "LOCAL" or "REMOTE" position, then escape from Service menu.

The contents of each "Sub menu" which are described on behind page. And the Counter Display is displayed selected number and setting number as indicated as below (Selected Number and Setting Number described on behind page).

A01 − 0207

Selected Number

Setting number

< Key function for the Service Menu >

『LOCAL/MENU/REMOTE』	 Set "MENU" position, then move to Service menu mode(it have condition bit 2 of DIP SW60902 on AV SYSCON P.C.Board to ON position) Set "LOCAL" or "REMOTE" position during Service Menu mode, then
	escape from Service Menu.
[UP]	 Move the cursor "*" for select the each items (the cursor move to down direction).
	2) Operated FF function originally if press [END] + [UP] button.
[DOWN]	 Move the cursor "*" for select the each items (the cursor move to up direction).
	2) Operated STOP function originally if press 「END」 + 「DOWN」 button.
[MOVE] + [UP]	1) Move the cursor "*" to next page (Page up function).
[MOVE] + [DOWN]	Move the cursor "*" to behind page (Page down function).
[SET]	Move to Sub-menu from Main menu.
	2) Operated REC function originally if press 「END」 + 「SET」 button.
[MOVE] + [SET]	Move to Main menu from Sub-menu.
[DATA+]	Increase the adjustment value or select the selecting item.
	2) Operated PAUSE function originally if press 「END」 + 「DATA+」 button.
[DATA-]	Decrease the adjustment value or select the selecting item.
	2) Operated PLAY function originally if press [END] + [DATA-] button.
[BIGIN]	Execute the PG Shifter adjustment
[END]	 Change function of the Key (REW, STOP, FF, PLAY, PAUSE, REC) by press [END] +"Operation key" on Service mode.
『AUDIO OUTPUT SELECT』	1) Change the display of Error rate, VIDEO or AUDIO on Audio Level Meter. 2) Select the AUDIO Output signal originally, if press 「END」+「AUDIO OUTPUT SELECT」 button.

Contents of Sub-menu

≪A00: SERVO ADJUST≫

	ITEM		NG VALUE	CONTENTS OF SETTING AND ADJUSTMENT	REMARK
No.	Name	No.	Display	CONTENTS OF SETTING AND ADJUSTMENT	REMARK
A01	T OFFSET	0000	-128	Torque Command Offset Adj. of T REEL	
		0200	72		
		1			
		0255	127		
A02	S OFFSET	0000	-128	Torque Command Offset Adj. of S REEL	
		0200	72		
	ļ	0255	127		
A03	T TORQUE	0000	-128	Correct the offset value of T REEL MOTER DRIVE	
		0128	0		
	0.7000115	0255	127	Comment the effect value of C REEL MOTER DRIVE	
A04	S TORQUE	0000	-128	Correct the offset value of S REEL MOTER DRIVE	
	•	0100			
		0128	0		
		0255	127		
A05	TENSION OFST	0000	-128	Torque Command Offset Adj. of T REEL	
700	TENOION OF ST	1	1		
		0213	85		
		0255	127		
A06	PG SFTR RISE	0000	0	THE THE PROPERTY AND ADD	
		1 1		(RISE display) PG SHIFTER AUTO ADJ	
		1024	1024	(FALL display).	
		4095	4095		
A07	PG SFTR FALL	0000	0		
			1		
		1024	1024	·	
		4095	4095		

ITEM		SETTING VALUE			
NO.	Name	No.	Display	CONTENTS OF SETTING AND ADJUSTMENT	REMARK
A08	RP GAIN	0000	-128	LISTA SENSITIVITY Adj. (RP HEAD) for DVCPRO	
		0128	0		
		1			
		0255	127		
A09	RP LINEAR			LISTA LINEARITY Adj. (RP HEAD) for DVCPRO	
A10	PB GAIN	0000	-128 	LISTA SENSITIVITY Adj. (PB HEAD) for DVCPRO	
		0128	0		
			1		
		0255	127		
A11	PB LINEAR			LISTA LINEARITY Adj. (PB HEAD) for DVCPRO	
A12	DV GAIN	0000	-128	LISTA SENSITIVITY Adj. (RP HEAD) for DV.	
		1			
		0128	0		
		0255	127		
A13	DV LINEAR			LISTA LINEARITY Adj. (RP HEAD) for DV	
A14	MOTOR CHECK	0000	OFF	Check the motor operation.	
		0001	CAPS.		
		0002	DRUM	·	
		0003	REEL		
		0004	REEL		
A15	DVCAM ENA	0000	OFF	SELECT THE DVCAM FORMAT CASSETTE	
		0001	ON		

≪B00: MODE SELECT≫

	ITEM	SETTING VALUE		CONTENTS OF SETTING AND AD HISTARY	DEMARK
No.	Name	No.	Display	CONTENTS OF SETTING AND ADJUSTMENT	REMARK
B01	REC DATA SEL	0000	NORMAL	SELECT THE RECORDING DATA	
		0001	cw		
		0002	CW/4		
B02	ECC	0000	ALL ON	ERROR CORRECTION INNER ON/OUTER ON	
		0001	INR ON	ERROR CORRECTION INNER ON/OUTER OFF	
		0002	OTR ON	ERROR CORRECTION INNER OFF/OUTER ON	
		0003	AL OFF	ERROR CORRECTION INNER OFF/OUTER OFF	
B03	VITABI	0000	AUTO	VITABI OPERATION ON/OFF	
D03	VIIADI	0001	MANUAL	VITABLE ELATION CIN/OLI	
		0001	OFF		
B04	CONCEAL		ON	ERROR CONCEALMENT ON	
B04	CONCEAL	0000	1		
Bor	DO LIEAD	0001	OFF	ERROR CONCEALEMENT OFF	
B05	PB HEAD	0000	PB	FORCED PB HEAD PLAYBACK	
		0001	R/P	FORCED RP HEAD PLAYBACK	
B06	TRACKING	0000	ATF	SELECTION OF TRACKING CONTROL MODE	
		0001	CTL	* This function is only active on the service Menu mode.	
B07	MANUAL	0000	-128	" IN CASE OF SELECT THE CTL MODE ON ABOVE	
TF	TRACK	11	l ı	ITEM B06, TRACKING VALUE IS ADJUSTABLE"	
		0128	0	* TRACKING VALUE RANGE	
		1	1	DATA 0 - 116 : RELATIVE TO 1 TRACK	
		0255	127	THEREFORE 0 TO 127 IS RELATIVE TO JUST	
			1	OVER 18 um	
B08	VTB A/2	0000	0	SET VALUE OF A/2	
		lι	1 1	ONLY EFFECTIVE VITABI SET TO MANUAL	
		0031	31		
			1		
		0063	63		
B09	AD VCO TEST	0000	OFF	SELECT THE ADJUSTMENT MODE OF SAMPLING	
		0001	32/TST	FREQUENCY OF AUDIO	
		0002	32/NOR		
		0003	44/TST		
		0004	44/NOR		
		0005	48/TST		
		0006	48/NOR		
B10	SHUFFLE EE	0000	ON	SHUFFLE EE MODE ON/OFF	
	31.011	0001	OFF	ONST. LE LE MODE ONOT	
B11	ERROR MODE	0000	FAST	ERROR DISPLAY MODE "FAST"	······································
ווט	ENDON NIODE		I		
B10	DIE EODM OF	0001	SLOW	ERROR DISPLAY MODE "SLOW"	
B12	DIF FORM SEL	0000	DIS	SELECT THE FORMAT OF DIF AUDIO	
		0001	ENA1		
		0002	ENA2		
B13	DIF AUD SEL	0000	DFLT	SETTING OF RECORDING METHORD OF DIF	
		0001	ZERO	AUDIO	
B14	SLOW AUDIO	0000	OFF	SELECT THE CONDITION OF AUDIO OUTPUT	
		0001	CUE	SIGNAL ON SLOW PLAYBACK MODE	

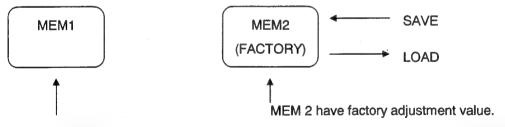
≪C00: REC ADJUST≫

	ITEM		IG VALUE	CONTENTS OF CETTING AND AD HIGHENT	DEMANK
No.	Name	No.	Display	CONTENTS OF SETTING AND ADJUSTMENT	REMARK
C01	REC CURR L	0000	-128	SETTING OF REC CURR (RP Lch)	
		1	. [
		0108	-20		
		1			
		0255	127		
C02	REC CURR R	0000	-128	SETTING OF REC CURR (RP Rch)	
		1	1		
		0108	-20		
		0255	127		
C03	REC FREQ L	0000	-128	SETTING OF REC FREQ (RP Lch)	
		0108	-20		
		0255	127		
C04	REC FREQ R	0000	-128	SETTING OF REC FREQ (RP Rch)	
		0108	-20		
			1		
		0255	127		
C05	DEFAULT	0000	END		
		0001	LOAD		
		0002	SAVE		

「Operation of DEFAULT 」

1. Set the cursor "*" to SAVE or LOAD and press the SET button, then execute the program.

NOTE: 1. The VTR have two memory area for the adjustment value as indicated as below.



MEM1 is always renewed follow the adjustment value on the RF and EQ adjustment menu.

2. We recommended the SAVE function does not use on the market, because the renewed adjustment value is stored to MEM 1 automatically.

≪D00: PB ADJUST≫

	ITEM	SETTI	NG VALUE	CONTENTS OF SETTING AND ADJUSTMENT	DEMARK
No.	Name	No.	Display	CONTENTS OF SETTING AND ADJUSTMENT	REMARK
D01	RP PHASE L	0000	-128	RP Lch PLAYBACK PHASE CORRECTION	
		1			
		0055	-73		
		0255	127	·	
D02	RP MAG L	0000	-128	RP Lch PLAYBACK OUTPUT GAIN CORRECTION	
		0108	-20		
		1			
		0255	127		
D03	RP A L	0000	-128	RP Lch PLAYBACK OUTPUT DELAY A	
				CORRECTION	
		0160	42		
	-	0255	127		
D04	RPBL	0000	-128	RP Lch PLAYBACK OUTPUT DELAY B	
				CORRECTION	
		0100	-28		
	55.5114.05.5	0255	127	DD D L DLAVBACK DUACE CODDECTION	
D05	RP PHASE R	0000	-128	RP Rch PLAYBACK PHASE CORRECTION	
		0055			
		0055	-73		
		0255	127		
D06	RP MAG R	0000	-128	DD D-L DLAVDACK OLETPLE CAIN CORDECTION	
200	I'll MAGIT	1	1	RP Rch PLAYBACK OUTPUT GAIN CORRECTION	
		0108	-20		
		1	-		
		0255	127		
D07	RPAR	0000	-128	RP Rch PLAYBACK OUTPUT DELAY A	
		1	1	CORRECTION	
		0160	42		
		1	1	·	
		0255	127		
D08	RP B R	0000	-128	RP Rch PLAYBACK OUTPUT DELAY B	
				CORRECTION	
		0100	-28	·	
		0255	127		
D11	PB PHASE L	0000	-128	PB Lch PLAYBACK PHASE CORRECTION	
			1		
		0055	-73		
D46		0255	127		
D12	PB MAG L	0000	-128	PB Lch PLAYBACK OUTPUT GAIN CORRECTION	
		0100			
		0108	-20		
		0255	107		
		0255	127		

	ITEM	SETTI	IG VALUE	CONTENTS OF CETTING AND AD HIGHERT	
No.	Name	No.	Display	CONTENTS OF SETTING AND ADJUSTMENT	REMARK
D13	PBAL	0000	-128 	PB Lch PLAYBACK OUTPUT DELAY A CORRECTION	
		0160	42		
		0255	127		
D14	PBBL	0000	-128	PB Lch PLAYBACK OUTPUT DELAY B	
		1		CORRECTION	
		0100	-28		
		0055	107	·	
D15	PB PHASE R	0255	-128	PB Rch PLAYBACK PHASE CORRECTION	The state of the s
D13	FBFNASEN	1 0000	1	FB RUIT DATBACK FRASE CORRECTION	
		0055	-73		
		1 1			
		0255	127		
D16	PB MAG R	0000	-128	PB Rch PLAYBACK OUTPUT GAIN CORRECTION	
			.	·	
		0108	-20		
		0255	127		
D17	PBAR	0000	-128	PB Rch PLAYBACK OUTPUT DELAY A	
		1		CORRECTION	
		0160	42		
			1		
		0255	127		· · · · · · · · · · · · · · · · · · ·
D18	PBBR	0000	-128	PB Rch PLAYBACK OUTPUT DELAY B	
		0100	-28	CORRECTION	
		0.00	1		
		0255	127		
D21	DV PHASE L	0000	-128	RP Lch PLAYBACK PHASE CORRECTION (FOR DV)	
		0090	-38		
		0255	127		
D22	DV MAG L	0000	-128	RP Lch PLAYBACK OUTPUT GAIN CORRECTION	
	D 7 11.1 1.0 2	1	1	(FOR DV)	
		0200	72		
		1	1		
		0255	127		
D23	DVAL	0000	-128	RP Lch PLAYBACK OUTPUT DELAY A	
		0140	12	CORRECTION (FOR DV)	
		0140	12	(FOR DV)	
		0255	127		
D24	DVBL	0000	-128	RP Lch PLAYBACK OUTPUT DELAY B	
				CORRECTION	
		0100	-28	(FOR DV)	
		1			
Doc	DV BUAGE B	0255	127	DD D-t- DI AVDAOK DUACE CODDECTION (TOTAL)	
D25	DV PHASE R	0000	-128 I	RP Rch PLAYBACK PHASE CORRECTION (FOR DV)	
		0090	-38		
		1	1		
		0255	127		

ITEM		TEM SETTING VALUE		CONTENTS OF SETTING AND AD HISTMENT	REMARK
No.	Name	No.	Display	CONTENTS OF SETTING AND ADJUSTMENT	NEWARK
D26	DV MAG R	0000	-128	RP Rch PLAYBACK OUTPUT GAIN CORRECTION	
		1	1	(FOR DV)	
		0200	72		
		0255	127		
D27	DVAR	0000	-128	RP Rch PLAYBACK OUTPUT DELAY A	
		1		CORRECTION	
		0140	12	(FOR DV)	
		0255	127		
D28	DVBR	0000	-128	RB Rch PLAYBACK OUTPUT DELAY B	
			1	CORRECTION	
		0100	-28	(FOR DV)	
		1	1		
		0255	127		
D30	DEFAULT	0000	END		
		0001	LOAD	LOAD THE FACTORY ADJUSTMENT VALUE	
		0002	SAVE	SAVE THE ADJUSTMENT VALUE	

≪E00: EQ ADJUST≫

ITEM		SETTING VALUE		CONTENTS OF OPPTING AND AD MIGHTING	
No.	Name	No.	Display	CONTENTS OF SETTING AND ADJUSTMENT	REMARK
E01	AUTEQ TARGET	0000	-128	QUANTITY OF EQUIVALLENT FOR EQ IC ADJ.	
		0170	42	·	
		0255	127		
E02	DELAY OFFSET	0000	-128	EQ DELAY OFFSET ADJ.	
		0100	-28		
		0255	127		
E03	COMP LEVEL	0000	-128	EQ COMPALATOR LEVEL ADJ.	
		1			
		0120	-8		
		0255	127		
E04	CLOCK PHASE	0000	-128	PLL CLOCK PHASE ADJ.	
		0160	32		
		0255	127		
E05	DEFAULT	0000	END		
]		0001	LOAD	LOAD THE FACTORY ADJUSTMENT VALUE	
<u> </u>		0002	SAVE	SAVE THE ADJUSTMENT VALUE	

≪F00: VIDEO ADJUST≫

	ITEM	SETTIN	G VALUE	CONTENTS OF SETTING AND AD HISTMENT	DEMARK
No.	Name	No.	Display	CONTENTS OF SETTING AND ADJUSTMENT	REMARK
F01	Y/C AXIS OFS	0000	-128	SETTING THE OFFSET OF Y/C REC CHROMA	
				PHASE.	
		0128	0		
		1			
		0255	127		
F02	CPS AXIS OFS	0000	-128	SETTING THE OFFSET OF COMPOSITE REC	
		1		CHROMA PHASE.	
		0128	0		
		0255	127		
F03	CPS Y LEV	0000	-128	SETTING OF RECORDING Y LEVEL	
		0128	0		
		0255	127		
F04	CPS C LEV	0000	-128	SETTING OF RECORDING CHROMA LEVEL	
		0128	0		
		0255	127		
F05	Y CLAMP DC	0000	-128	SETTING VOLTAGE OF RECORDING Y CLAMP	
		1			
		0128	0		
			100		
		0255	127		
F06	REC PR BAL	0000	-128	SETTING OF REC PR LEVEL.	
		0100			
		0128	0		
	,	0255	127		
F07	REC PB BAL	0000	-128	SETTING OF REC Pb LEVEL	
FU/	REC PB BAL	0000	1-120	SETTING OF REC FD LEVEL	
		0128	0		
		0120	ľ		
		0255	127	·	
F08	PR BAL	0000	-128	SETTING OF PR OUTPUT BALANCE	
	THE BALL	1	1		
		0128	0		
		1			
		0255	127		
F09	PB BAL	0000	-128	SETTING OF Pb OUTPUT BALANCE	
- *					
		0128	o		
		0255	127		
F10	SET UP OFST	0000	-128	SETING OF SET UP LEVEL	
		0128	o		
		1			
		0255	127		

ITEM		SETTI	NG VALUE		
No. Name		Name No. Display		CONTENTS OF SETTING AND ADJUSTMENT	REMARK
F11	V LEV OFST	0000	-128	SETTING OF VIDEO OUTPUT LEVEL	
		0128	0		
		0255	127		and the second s
F12	HUE OFST	0000	-128	SETTING HUE OFFSET BALUE OF VIDEO	
				OUTPUT	
		0128	0		
		0255	127		
F13	C LEV OFST	0000	-128	SETTING OF PLAYBACK CHROMA LEVEL	
13	C LEV OF 31	0000	1	SETTING OF FEATBACK CHROWN LEVEL	
		0128	0		
		0255	127		
F14	SET UP ADD	0000	-128	SET THE SET UP LEVEL on SET UP ADD condition	
		0072	-56		
		0255	127		
F15	V LEV ADD	0000	-128	SET THE VIDEO LEVEL on SET UP ADD condition	
			100		
		0026	-102		
		0255	127		
F16	Y CLAMP CUT	0000	-128	SET THE LEVEL on SET UP CUT condition	
		1	1		
		0119	-9		
		1	1		
		0255	127		
F17	EE CLAMP DC	0000	-128	SETTING OF CLAMP DC ON EE MODE	
		1			
		0208	80		
F10	100000000000000000000000000000000000000	0255	127	OFTEN OF OLAMO DO OMA MODE	
F18	VV CLAMP DC	0000	-128	SETTING OF CLAMP DC ON VV MODE	
		0216	88		
		02.10	1 3		
		0255	127		
F19	V SETUP	0000	OFF	Select the display V IN SET UP and V OUT SET UP	<u></u>
_		0001	ON	on the SET UP menu	
F30	DEFAULT	0000	END		
		0001	SAVE	LOAD THE FACTORY ADJUSTMENT VALUE	
		0002	LOAD	SAVE THE ADJUSTMENT VALUE	

≪F80: TBC ADJUST≫

ITEM		ITEM SETTING VALUE		CONTENTS OF CETTING and AD III CONTENTS	
No.	Name	No.	Display	CONTENTS OF SETTING and ADJUSTMENT	Remark
F81	V LEV ENA	0000	OFF	VALID / INVALID SELECTION OF VIDEO LEVEL	
		0001	ON	FOR SET UP MENU "05 : VIDEO LEVEL"	
F82	STUP LEV ENA	0000	OFF	VALID / INVALID SELECTION OF SET UP LEVEL	
		0001	ON	FOR SET UP MENU "06 : SET UP LEVEL"	
F83	HUE ENA	0000	OFF	VALID / INVALID SELECTION OF HUE FOR SET	
		0001	ON	UP MENU "07 : HUE"	
F84	C LEV ENA	0000	OFF	VALID / INVALID SELECTION OF CHROMA LEVEL	
		0001	ON	FOR SET UP MENU " 08 : CHROMA LEVEL "	
F85	VIDEO PHASE	0000	-128	SETTING OF VIDEO PHASE	,
		0128	0		
			1		
		0255	127		
F86	DEFAULT	0000	END		
		0001	LOAD	LOAD THE FACTORY ADJUSTMENT VALUE	
		0002	SAVE	SAVE THE ADJUSTMENT VALUE	

3. DIAG MENU OPERATION (Display procedure of Hour Meter and Software Version)

- Display the Software version
- Display the Hour Meter

The units system software version display and hour meter displays can be viewed on the DIAG menu.

<To transfer from a Normal mode to the DIAG mode>

- (1). Keep pressing EJECT button, set the 「LOCAL/MENU/REMOTE 」 switch to "MENU" position on the front panel, then Hour Meter information appear on screen.
- (2). For select the item on Hour Meter display, press UP(FF) button to move down the cursor(*) and press DOWN(REW) button to move up the cursor(*).

≪Hour	Meter	Display≫

	•					
DIAG-MENU HOUR METER						
* H0	OPERATION	10000H				
		1000011				
H1	DRUM RUN	10000H				
H2	TAPE RUN	10000H				
По	THREADING	10000T				
НЗ	THREADING	10000T				
1						
76.2.24	and the second of the second o					

Counter Display also displayed item number and hour of Hour Meter information as indicated as below

(e.g.) H0 00001

≪Version Display≫

DIAG-MENU-VERSION				
<ntsc></ntsc>				
IF	1.00-00-0.00			
AV-SYSCON	1.00-00-0.00			
SBC	1.00-00-0.00			
CYLINDER	1.00-00-0.00			
REEL	1.00-00-0.00			
END				

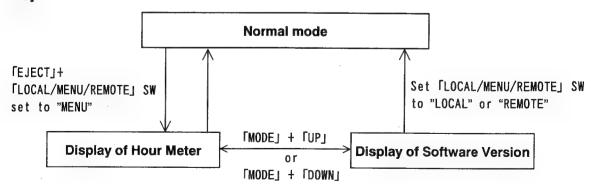
Software version number of FRONT displayed on the Counter display as indicated as below.

(e.g.) 2.00-006

<To display the software version>

(1). Press [MODE]+[UP] or [MODE]+[DOWN] button. The display changes to version from hour meter.

[Display Mode]



4. HOW TO RESET THE HOUR METER

- 1. Make an Eject condition.
- 2. Set the bit 2 of DIP SW 60902 on AV SYSCON P.C.Board to ON position.
- 3. Display the Hour Meter information on screen.
- 4. Set cursor "*" to required item for reset (item H1 to H3).

NOTE: The Hour Meter can reset individually, which are DRUM RUN, TAPE RUN and THREADING.

5. Press the reset button, then appeared message as indicated as below.

< In case of select H1:DRUM RUN >

HOUR NETER INIT SET DRUM RUN OK?

YES <STOP> / NO <STILL>

When press the "STOP" button, then execute the reset function.
When press the "STILL" button, then cancel the reset command.

Details of the hour meter display are given below.

	ltem	Data	Description	
No.	Display	Display		
Н0	OPERATION	00000H 99999H	The period of time during which the power has been supplied since it was turned on is displayed in 1-hour increments.	
H1	DRUM RUN	00000H 99999H	The period of time during which the drum has been rotation is displayed in 1-hour increments.	
H2	TAPE RUN	00000H 99999H	The tape travel duration in the fast forward, rewind, play, search (JOG, VAR, SHTL), recording or editing mode (but not in the STILL mode with JOG, VAR and SHTL) is displayed in 1-hour increments.	
НЗ	THREADING	00000H 99999H	The number of times the tape has been threaded or unthreaded is didplayed in 1-time increments.	

5. FLASH ROM VERSION UP PROCEDURE

- 1. FLASH ROM VERSION UP REQUIREMENT.
 - Flash rom version up software (VFK1248A)
 - Rom Rewriter (VFK1304A)
 - · WINDOWS Ver. 3.1 or WINDOWS 95 built in personal computer
 - RS-232C cable (cross)

Note: The VFK1304A is designed cross type specification of 9P RS232C cables.

- · If you want to use the RS232C straight cables, please remove the resistor R3 and R4. And those
- · resistors are install to pattern of R1 and R2.

2. INSTALL THE FLASH ROM VERSION UP SOFTWARE

• Copy the following files to WINDOWS Ver. 3.1 or WINDOWS 95 built in personal computer.

VSI2312A.EXE (PROGRAM FILE) VSI2312A.INI (INITIAL FILE)

3. LOADING METHOD OF FLASH ROM VERSION UP SOFTWARE

- 1) When using the WINDOWS Ver. 3.1 built in personal computer.
 - Load the file manager and double click the VSI2312A.EXE file.
 - Resistor the VSI2312A.EXE file to icon and double click it.
- 2) When using the WINDOWS 95 built in personal computer.
 - · Load the explorer and double click the VSI2312A.EXE file.
 - · Make the short cut of VSI2312A.EXE file and double click it.

CONNECTION OF ROM REWRITER.

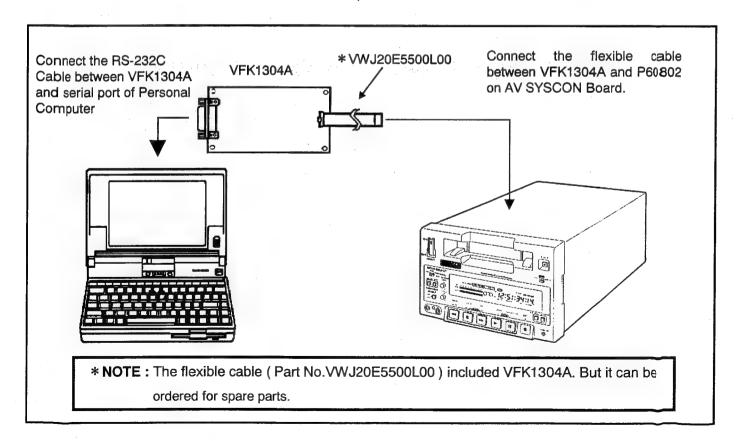
Please connect the Rom Rewriter after turn off the power switch on AJ-D250.

Caution

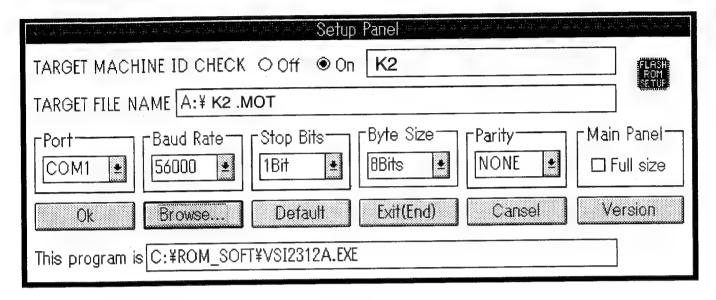
-- Additional Preparation -

Please disconnect the flexible cable of the P1101 connector on the AV SYSCON C.B.A..

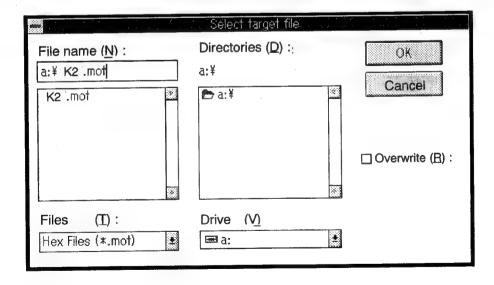
Also, be careful about disconnected flexible cable does not touch to the Print Circuit—boards or Chassis of the unit.



- 5. FLASH ROM VERSION UP PROCEDURE
- (1) Connect the Rom Writer (VFK1304A) to D250 and personal computer after turn off the power switch on AJ-D250
- (2) Set the pin 1 and 2 of Dip Switch on the P.C.Board (VFK1304A) to ON position.
- (3) Load the flash rom version up software. Then the following window is opened.

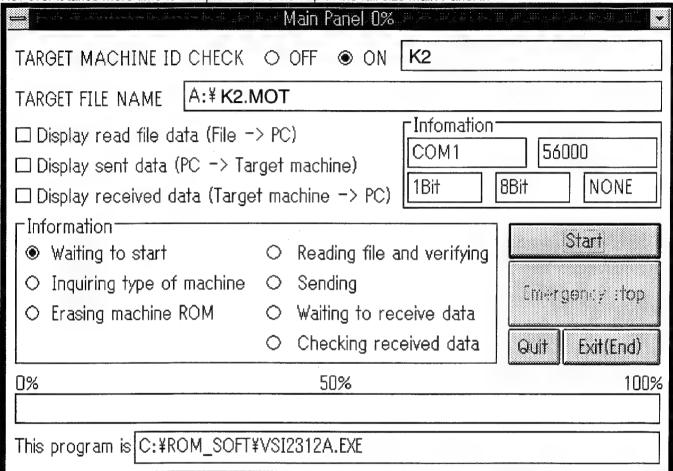


- (4) Set the following setting on the Set Up Panel. Please type capital letter.
 - TARGET MACHINE ID CHECK ---> On, K2
 - TARGET FILE NAME ---> Set the new software file name with full pass or click the Browse button and select the new file. (When click the Browse button, the following window is opened.)
 - Port· ---> Set the personal computer COM port No.
 - Baud Rate ---> Baud Rate can be set 56000 and 19200 only. In case of set to 19200, set the pin 2 of Dip-Switch to OFF position on the P.C.Board (VFK1304A).

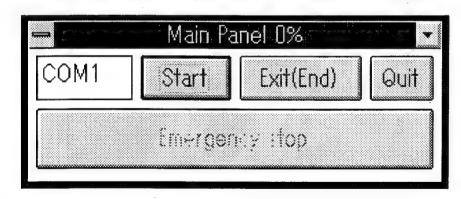


- (5) Set the Main Panel setting and then click the OK button. Main Panel is opened.
 - Main Panel ---> When select the full size of Main Panel, the following window is opened. Full size Main Panel can indicate the detail information of machine status.

However it takes more time to complete the version up at the full size main Panel in



• Main Panel ---> When select the small size of Main Panel, the following window is opened.



We recommend the Main Panel setting to full size.

- (6) Turn on the power switch on AJ-D250. And confirm that the LCD is displayed abnormal. (It only occurred version up side of VTR.)
- (7) If the LCD is displayed normally, if occurred connection error.
 Please confirm the connection between AJ-D250, rom rewriter and personal computer after turn off the power switch on AJ-D250.
- (8) Click the OK button on the Main Panel. Rewrite the new software to flash rom after erase the flash rom. When you selected the full size Main Panel, you can confirm the detail information of machine status. When you selected the small size Main Panel, you can confirm the machine status (percentage) at title bar.

Note: It takes about 1 minute to erase flash memory.

- (9) In case of no erasing or no writing when "Inquiring type of machine" on the full size Main Panel, check the RS-232C communication or TARGET MACHINE TYPE.
- (10) After finish the version up, please confirm the display of AV STS software version on the LCD. Turn the power switch to off and disconnect the Rom rewriter (VFK1304A) from the D250.

6. ERROR MESSAGES

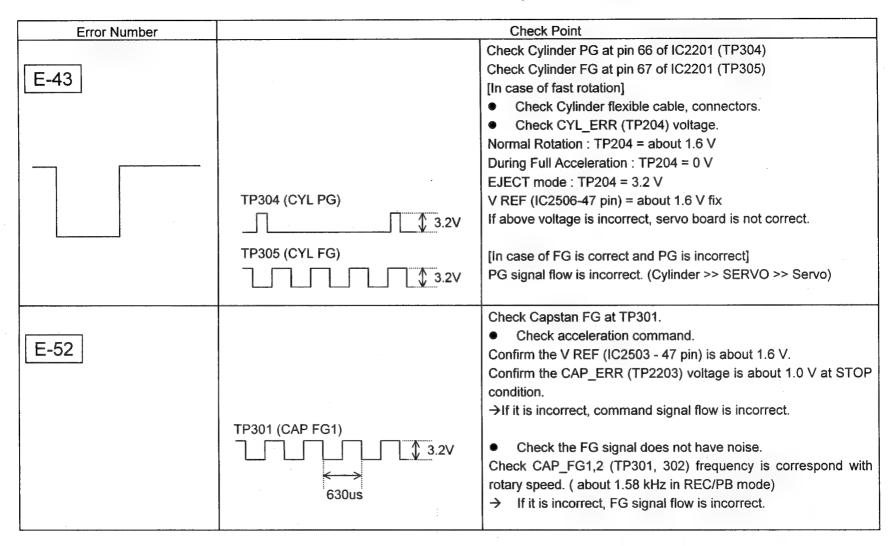
When one of the error numbers appears on the counter display, the VTR is set to the auto OFF mode (stop).

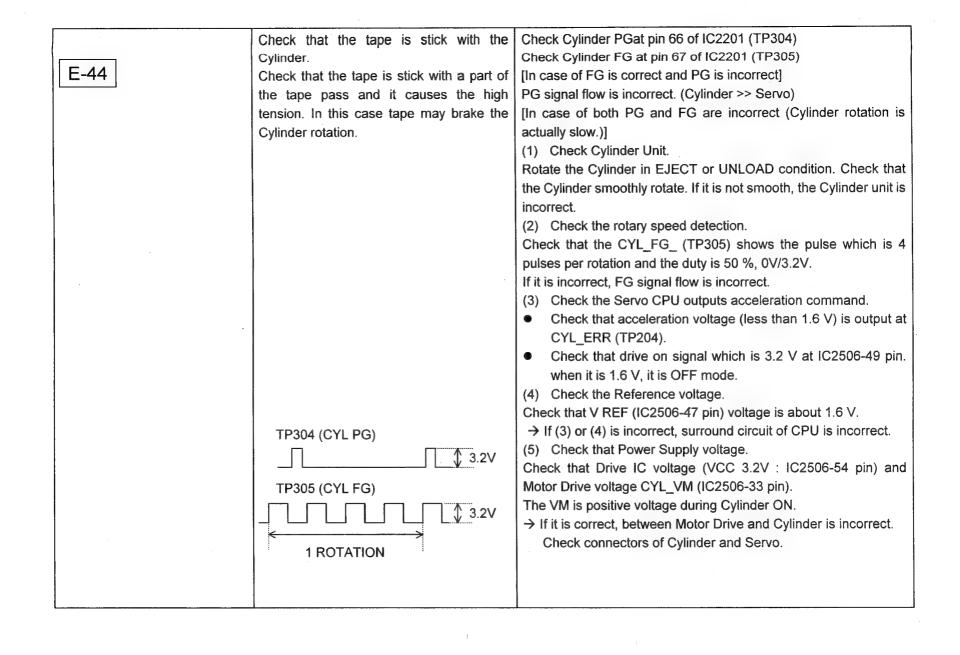
NOTE: Error number E-00, E-01 and E-09, which are indicated as warning condition to VTR. VTR operation is continued.

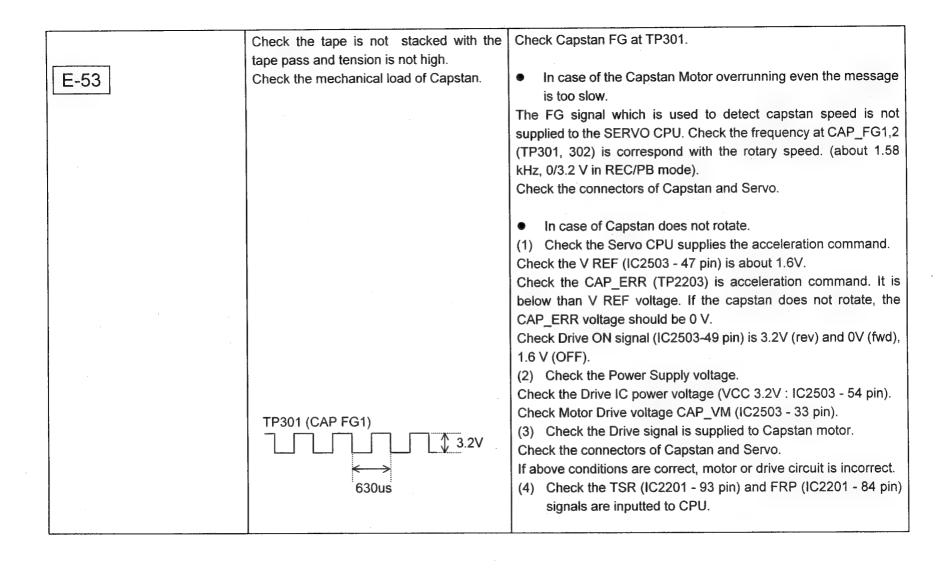
Error No.	Details of Error	VTR Operation
E-00	Appears when the servo fails to lock 3or more seconds. When T&S&R is selected as the SETUP menu item No.001 setting, "SERVO NOT LOCKED" is display on the third line (line where the remaining tape amount is indicated) of the monitor screen.	CONTINUATION
E-01	Appears when there is no head output for one or more seconds (due to clogging, etc.). "L" is displayed on the first line (counter line) of the monitor screen. When T&S&R is selected as the SETUP menu item No.001 setting, "LOW RF" is display on the third line (line where the remaining tape amount is indicated) of the monitor screen.	CONTINUATION
E-09	Appears when there is no head output for one or more seconds (due to clogging, etc.). "N" is displayed on the first line (counter line) of the monitor screen. When T&S&R is selected as the SETUP menu item No.001 setting, "NO RF" is display on the third line (line where the remaining tape amount is indicated) of the monitor screen.	CONTINUATION
-	When all the following conditions are met, the part of the tape is recognized as a blank.	
	No output from any of the heads	
	Playback data can not be read	
	NO CTL signal	
E-11	The reel base, which operates in line with the size of the tape has been locked up for 2.5 or more seconds.	STOP
E-21	Four or more 4 seconds have elapsed after the cassette was instead but the cassette is not lowered down inside the unit. Alternatively, 4 or more seconds have elapsed after the eject operation was initiated but the cassette is not ejected.	STOP
E-31	The loading operation is not completed within 4 seconds.	STOP
E-32	The unloading operation is not completed within 4 seconds.	STOP
E-41	The FG (rotational speed) signal is not output from the cylinder motor.	STOP
E-42	The PG (phase speed) signal is not output from the cylinder motor.	STOP
E-43	The cylinder motor speed is abnormally high.	STOP
E-44	The cylinder motor speed is abnormally low.	STOP

Error No.	Details of Error	VTR Operation
E-51	The FG (rotational speed) signal is not output from the capstan motor.	STOP
E-52	The capstan motor speed is abnormally high.	STOP
E-53	The capstan motor speed is abnormally low.	STOP
E-61	The supply reel motor has locked up.	STOP
E-62	The take-up reel motor has locked up.	STOP
E-63	The supply reel motor speed is abnormally high.	STOP
E-64	The take-up reel motor speed is abnormally high.	STOP
E-65	Abnormal tension has been detected.	STOP
E-66	At the tape start or end, the short FF or, REW operation does not stop even after 7 or more seconds.	STOP
E-67	A check sum error was detected in the serial data communication between the AV SYSCON and SERVO.	STOP
E-68	In serial data communication between the AV SYSCON and SERVO, the data was fixed at low or high and the absence of data was detected.	STOP
E-69	A communication error was detected in the serial data between the AV SYSCON and SERVO, when the power was turned on.	STOP
E-6B	This appears when there is a communication error between IF and AV SYSCON. There is a problem with the internal reference or external reference.	STOP
E-70	The fan motor has stopped "S" is displayed on the first line (counter line) of the monitor screen. When T&S&R is selected as the SETUP menu item No.001 setting, "FAN STOP" is display on the third line (line where the remaining tape amount is indicated) of the monitor screen. When about an hour elapses, the unit is shut down automatically.	STOP V Forced POWER OFF
E-72	Trouble in the solenoid drive circuitry was detected.	STOP
E-73	Trouble in the cleaning solenoid drive circuitry was detected.	STOP

7. AUTO OFF Check Point Table (Part of SERVO)

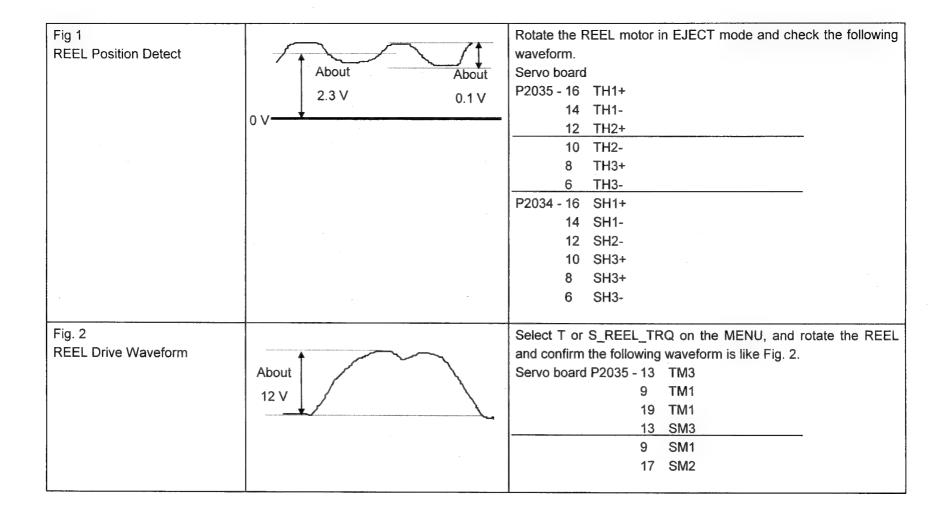






	·	
		Check Reel FG waveform.
[E 00]		Reel FG Refer to Reel FG Check 1 and Reel FG Check 2
E-63		Check the below signals input to Reel CPU
		• S-Reel-FG (IC2101-1 & 8 pin)
		• T-Reel-FG (IC2101-9 & 68 pin)
·		S-Reel-FWD-L (IC2101-11 pin)
		T-Reel-FWD-L (IC2101-12 pin)
		[In case of abnormal condition]
		Check loosen of connector
		Servo board
		Reel FG Sensor, Reel Replacement
		2. Check Reel Drive circuit.
		TP2403 (S REEL ERR) and TP2543 (T REEL ERR) on
		SERVO board less than 0.5 V
		Check Reel FG waveform.
		Reel FG Refer to Reel FG Check 1 and Reel FG Check 2
E-64		Check the below signals input to Reel CPU
		• S-Reel-FG (IC2101-1 & 8 pin)
	·	• T-Reel-FG (IC2101-9 & 68 pin)
		S-Reel-FWD-L (IC2101-11 pin)
		T-Reel-FWD-L (IC2101-12 pin)
		[In case of abnormal condition]
		Check loosen of connector
		Servo board
		Reel FG Sensor, Reel Replacement
		2. Check Reel Drive circuit.
		TP2403 (S REEL ERR) and TP2543 (T REEL ERR) on
		SERVO board less than 0.5 V

E-61		 Confirm the Reel offset adjustment. Confirm the Reel Torque adjustment. Confirm the Tension. Check the Capstan is operated correctly (CAP mode).
E-62		5. Check the tape is beat6. Check loosen of connector.7. Check the Reel-Brake Solenoid are operated correctly.
E-66	Check the problem occurred at tape beginning or tape, or other portion. DC 1.7V 1.0Vp-p FG1 (IC2901 - 1 & 7 pin) FG2 (IC2904 - 1 & 7 pin)	 Check Reel FG Reel FG Refer to Reel FG Check 1 and Reel FG Check 2 [In case of abnormal condition] Check loosen of connector Servo board Reel FG Sensor, Reel Replacement Check transparent tape detection. [In case of abnormal condition] Check loosen of connector Servo board Replace sensors. Check the tape is not bent.



SECTION 3

MAINTENANCE/DISASSEMBLY PROCEDURES & MECHANICAL ADJUSTMENT

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1. Maintenance

1-1. Maintenance Part Chart

	Name Part Number Part Using Hours (Unit hours)							
No	Name	Part Number	Part Using Hours (Unit hours)					
			2,000	4, 000	6,000	8, 000	10,000	12,000
	Tape Path Cleaning			\triangle Clean th	ne Tape Pa	th at each	500 hours	
1	Cylinder Unit	VEG1498	•	•	•	•	•	0
2	Cleaning Arm Unit	V X L 2 9 2 4		•	•	•	•	0
3	Pinch Arm Unit	V X L 2 8 3 5		•=		•=		0
4	S Reel Motor Unit	VEM0686			•			0
5	T Reel Motor Unit	VEM0687			•			0
6	Thrust Screw Unit	VXQ0556			•			0
7	Front Loading Unit	VXA6753						•
8	Mech. Chassis Unit	VXY1459Z1						•
9	Fan Motor	VRF0202	Replace t	he Fan Mo	tor at each	10,000 h	ours <i>Opera</i>	ation Time

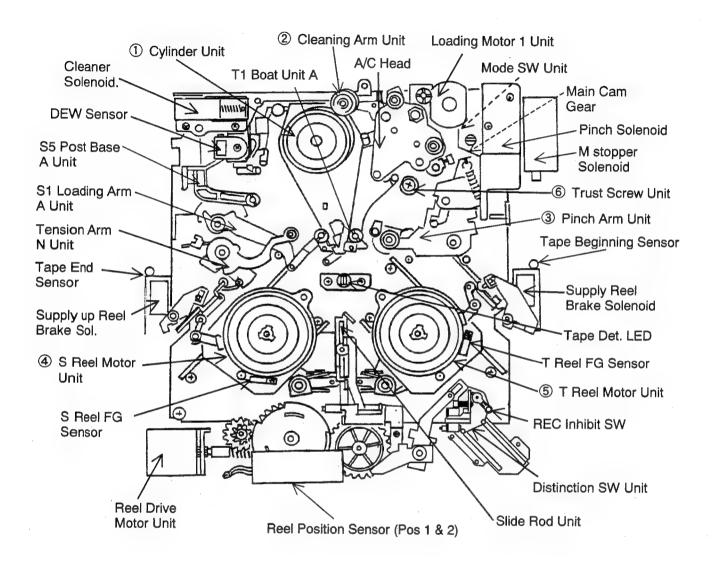
Note: Using hours are based on the head rotation hours.

Using hours are recommendation. It may depended on temperature, humidity or dusty.

Using hours are listed as the reference of maintenance. They do not mean guarantee Hours.

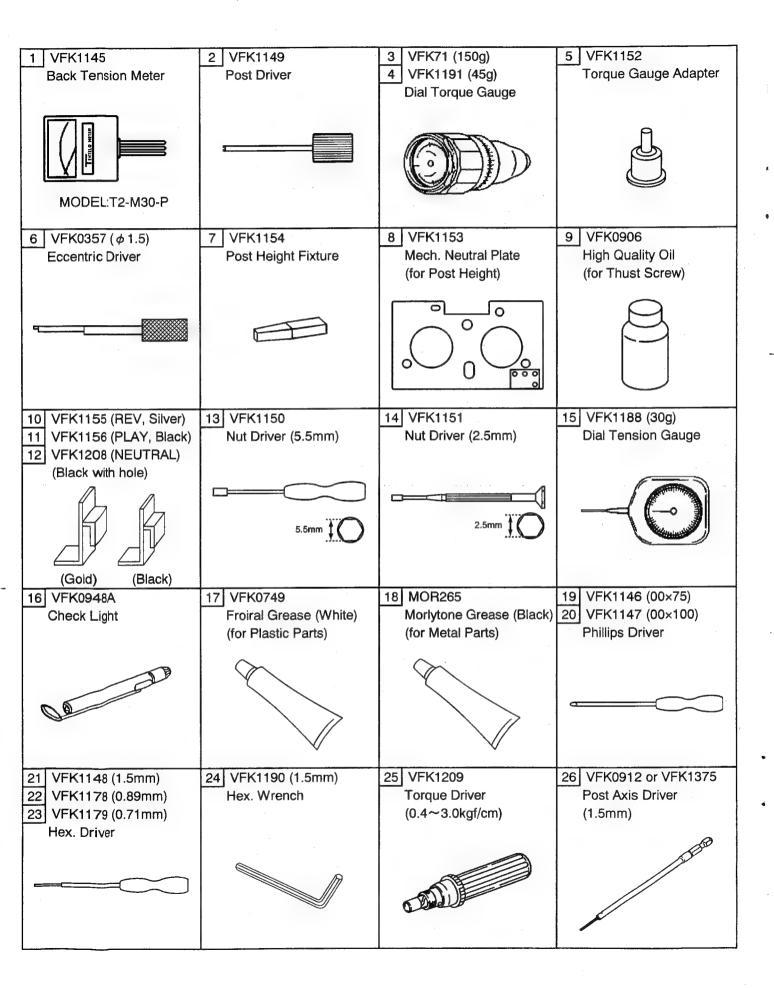
Symbol	Maintenance	Remark
•	Replacement	
0	Replacement	These parts are included in Mech Chassis Unit
	Greasing	Wipe the old grease and apply new grease
Δ	Cleaning	This mark means cleaning is necessary
A	Lubrication	The lubrication is necessary

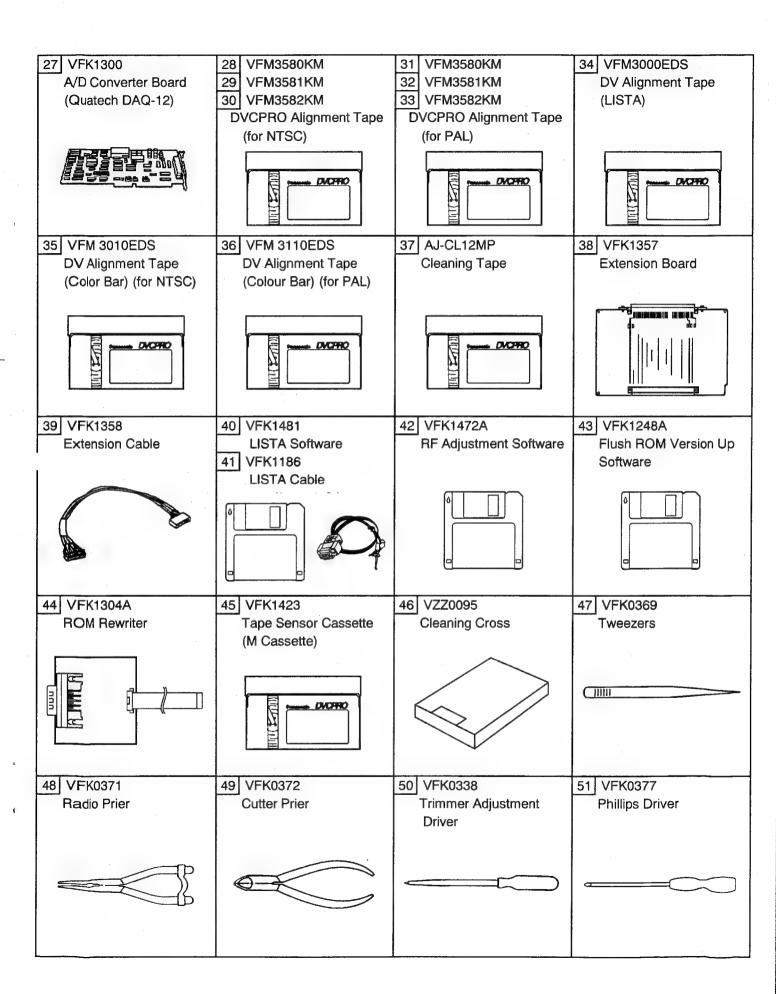
1-2. Sensors Layout



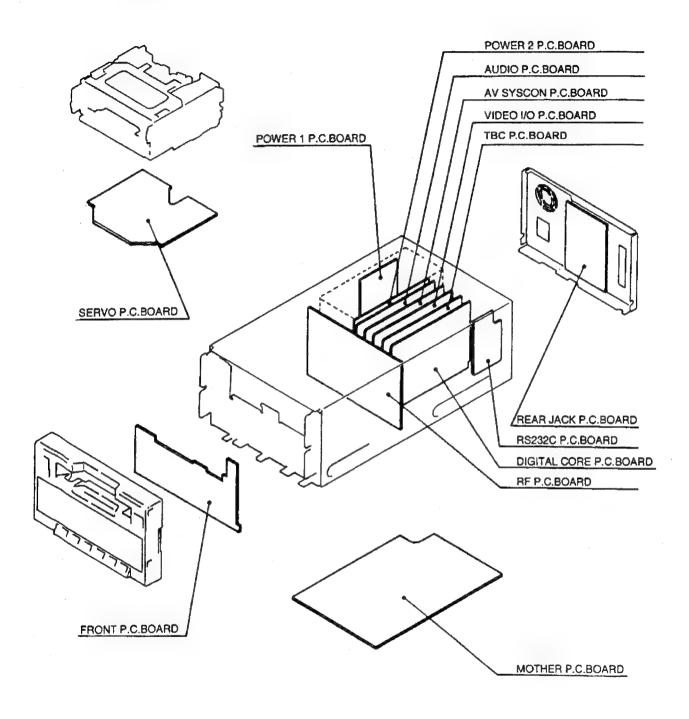
1-3. SERVICING FIXTURES & TOOLS

FIG.	PART NUMBER	FIXTURES & TOOLS	REMARKS
1	VFK1145	Back Tension Meter	
2	VFK1149	Post Driver	
3	VFK71	Dial Torque Gauge (150g)	
4	VFK1191	Dial Torque Gauge (45g)	
5	VFK1152	Torque Gauge Adapter	
6	VFK0357	Eccentric Driver (ϕ 1.5)	
7	VFK1154	Post Height Fixture	
8	VFK1153	Mechanism Neutral Plate (for Post Height)	
9	VFK0906	High Quality Oil (for Thrust Screw)	
10	VFK1155	Neutral Position Plate for REV (Silver)	
11	VFK1156	Neutral Position Plate for PLAYBACK (Black)	
12	VFK1208	Neutral Position Plate for NEUTRAL (Black with hole)	
13	VFK1150	Nut Driver (5.5mm)	
14	VFK1151	Nut Driver (2.5mm)	
15	VFK1188	Dial Tension Gauge (30g)	
16	VFK0948A	Check Light	
17	VFK0749	Froiral Grease (for Plastic Parts : White)	
18	MOR265	Morlytone Grease (for Metal Parts : Black)	
19	VFK1146	Phillips Driver (00-75)	Purchase Locally
20	VFK1147	Phillips Driver (00-100)	Purchase Locally
21	VFK1148	Hex. Driver (1.5mm)	
22	VFK1178	Hex. Driver (0.89mm)	
23	VFK1179	Hex. Driver (0.71mm)	
24	VFK1190	Hex. Wrench (1.5mm)	Purchase Locally
25	VFK1209	Torque Driver (0.4-3.0kg)	
26	VFK0912	Post Axis Driver (1.5mm) (a substitute for VFK1375)	
27	VFK1300	A/D Converter Board (DAQ-12 Quatech)	Purchase Locally
28	VFM3580KM	DVCPRO Alignment Tape	for NTSC only
29	VFM3581KM	DVCPRO Alignment Tape	for NTSC only
30	VFM3582KM	DVCPRO Alignment Tape	for NTSC only
31	VFK3680KM	DVCPRO Alignment Tape	for PAL only
32	VFK3681KM	DVCPRO Alignment Tape	for PAL only
33	VFK3682KM	DVCPRO Alignment Tape	for PAL only
34	VFK3000EDS	DV Alignment Tape (LISTA)	
35	VFK3010EDS	DV Alignment Tape (Color Bar)	for NTSC only
36	VFK3110EDS	DV Alignment Tape (Colour Bar)	for PAL only
37	AJ-CL12MP	Cleaning Tape	SALES Route
38	VFK1357	Extension Board	
39	VFK1358	Extension Cable	for A/C Head
40	VFK1481	LISTA Software	
41	VFK1186	LISTA Cable	
42	VFK1472A	RF Adjustment Software	
43	VFK1248A	Flush ROM Version Up Sftware	
44	VFK1304A	ROM Rewriter	
45	VFK1423	Tape Sensor Casette (M Casstte)	
46	VZZ0095	Cleaning Cross	
47	VFK0369	Twezers	
48	VFK0371	Radio Prier	
49	VFK0372	Cutter Prier	
50	VFK0338	Trimmer Adjustment Driver	
51	VFK0377	Phillips Diver	





1-4. Circuit Board Layout



1-5. Alignment Tapes

DVCPRO Alignment Tape

VFM3580KM(NTSC)

Time	Video		PCM		CU	IE
(min)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color Bar SMPTE(75%)	Composite Video Level Confirmation		·	1kHz 0VU	CUE Level
7:00	Color Bar Full Field(75%)	Component Video Level Confirmation	1kHz - 20dB	Audio Level Confirmation	1112 000	Confirmation
14:00	H Sweep	Frequency Response			6kHz 0VU	A/C Head Azimuth
18:00	Bowtie(500k)	Y/C Timing				
22:00	Pulse&Bar	Y/C Timing			-10dB,1kHz	Frequency
26:00 30:00	Area Markers				50Hz~15kHz	Response

VFM3581KM(NTSC)

Time(min)	Signal
0:00~20:00	ITI Pattern

VFM3582KM(NTSC)

Time(min)	Signal
0:00~10:00	X Value

VFM3680KM (PAL)

Time	Vid	Video		PCM	cu	E
(min)	Signal	Purpose	Signal	Purpose	Signal	Purpose
0:00	Color Bar	Video Level			1kHz	CUE Level
	100%	Confirmation			Reference level	Confirmation
10:00	H Sweep	Frequency	1kHz	Audio Level		
		Response	-18dBu	Confirmation		
14:00	Area Markers				6kHz	A/C Head
					Reference level	Azimuth
18:00	Bowtie(500k)	Y/C Timing				·
22:00	Pulse & Bar	Y/C Timing			1kHz	Frequency
					300Hz~6kHz	Response
26:00	Multi Pulse	Y/C Timing				
30:00						

VFM3681KM (PAL)

Time (min)	Signal
0:00 ~ 20:00	ITI Pattern

VFM3682KM (PAL)

Time (min)	Signal
0:00 ~ 10:00	X Value

1-6. Recommended Test And Service Equipment

NTSC

Part No.	Name	Remark
TSG130A(OP.04)	Analog Component Signal Generator	TEKTRONIX
	Oscilloscope	
1750,1760(OP.SC)	WFM Monitor	TEKTRONIX
or 1780R	·	
	Digital Volt Meter	
	Frequency Counter	
	VTVM	Frequency Band Width 4Hz-500KHz
	Audio Analyzer	

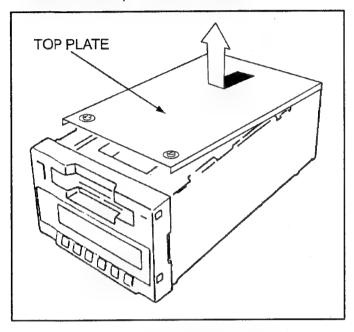
PAL

Part No.	Name	Remark
TSG131A(OP.04)	Analog Component Signal Generator	TEKTRONIX
	Oscilloscope	
1751,1761 (OP.SC)	WFM Monitor	TEKTRONIX
or 1781R		
	Digital Volt Meter	
	Frequency Counter	·
·	VTVM	Frequency Band Width 4Hz-500KHz
	Audio Analyzer	

2. Disassembly Procedures

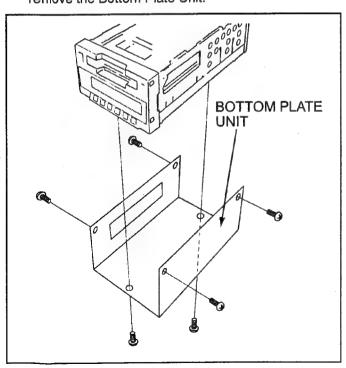
2-1. Removal of the Top Plate

- 1. Loosen the 2 screws on the top side of the unit.
- 2. Remove the Top Panel with direction of arrow.



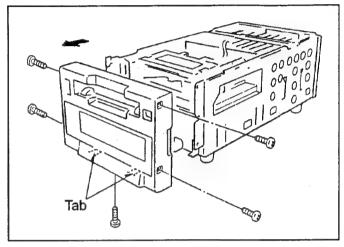
2-2. Removal of the Bottom Plate Unit

- 1. Unscrew the 4 screws on the both side of the unit.
- 2. Unscrew the 2 screws on the bottom side, and remove the Bottom Plate Unit.



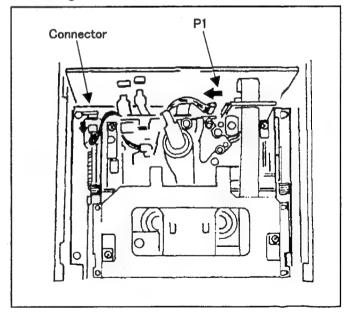
2-3. Removal of the Front Panel

- 1. Unscrew the 4screws on the both side of the Front Panel.
- 2. Unscrew a screw on the bottom side of the Front Panel, and unlock the 2 tabs.
- 3. Disconnect the flat cable which is connected to MOTHER P.C.Board, and remove the Front Panel.

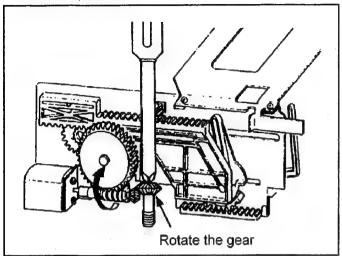


2-4. Removal of the Front Loading Unit

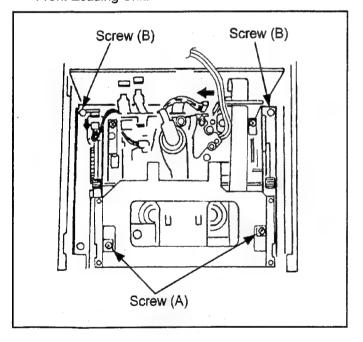
 Disconnect the connector P1 on Carriage P.C.Booad and disconnect the one connector on part of front loading motor.



4. Rotate the red plastic screw in front of the worm gear of the cassette down motor counterclockwise by a Phillips-head screwdriver pushing the screw to move the Cassette Holder unit until the 2screws (A) can be removal position.

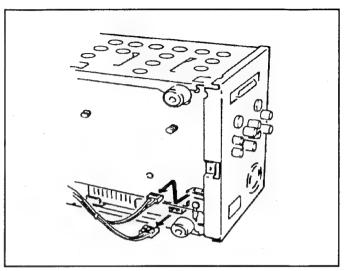


5. Unscrew the 4 screws (A) and (B), then remove the Front Loading Unit.

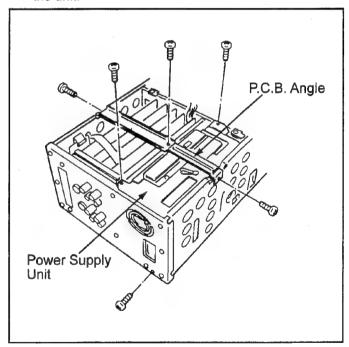


2-5. Removal of the Power Supply Unit

1. Disconnect the 2 connectors with the Power Supply Unit on the bottom side of the unit.

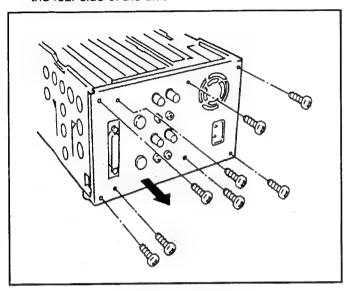


- 2. Unscrew the 3 screws with the P.C.Board Angle on the top side of the unit.
- Unscrew a screw on the Rear Jack Plate and 2 screws wit the Power Supply Unit on the top side of the unit.



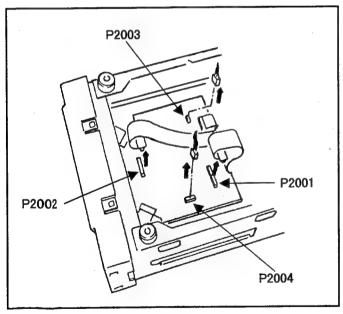
2-6. Removal of the Rear Jack Plate

1. Unscrew the 8 screws with the Rear Jack Plate on the rear side of the unit.

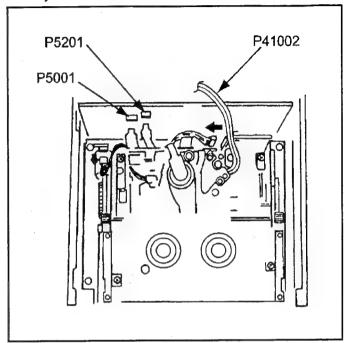


2-7. Removal of the Mechanism Unit

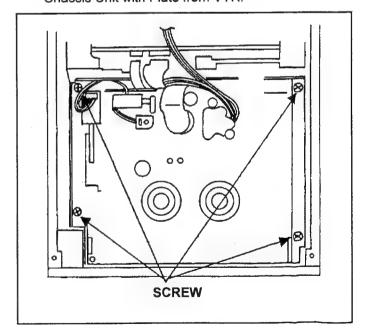
- 1. Remove the Front Loading Unit.
- 2. Remove the Bottom Plate Unit.
- 3. Disconnect the connector P2001,P2002,P2003 and P2004 on the Servo P.C.Board.



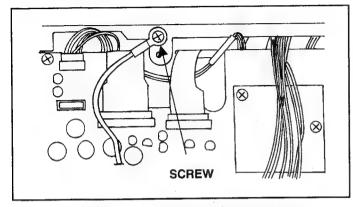
- Disconnect the connector P41002 on AUDIO P.C.Board, which connected between A/C Head and AUDIO P.C.Board.
- Disconnect the connector P5001 and P5201 on RF AMP P.C.Board, which are connected between the Cylinder Unit and the RF P.C.Board.



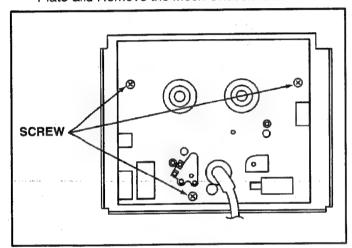
 Unscrew the 4 screws on the Plate, which plate installed Mech Chassis Unit. And remove the Mech Chassis Unit with Plate from VTR.



7. Unscrew one screw, which fixed earth cable from Servo P.C.Boaed.

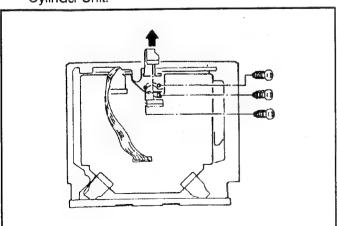


8. Unscrew 3scres, which fixed Mech Chassis Unit to Plate and Remove the Mech Chassis Unit.

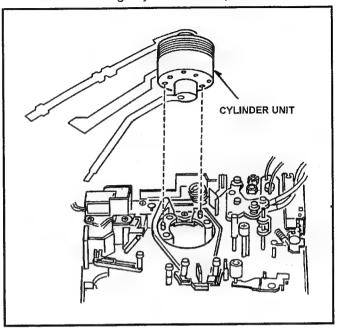


2-8. Removal of the Cylinder Unit

- Please operate follow the item number 1 to 6 on explanation of "2-7. Removal of Mech Chassis Unit".
- 2. Remove the T1 Guide.
- Disconnect the connector P2033 on Servo P.C.Board. and unscrew 3 screws, which have spring from the Cylinder Unit.

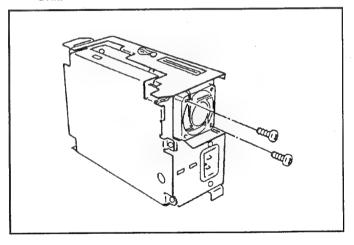


4. Unscrew one screw, which fixed flexible cable from top of Cylinder unit. And remove the Cylinder unit without touching any mechanical parts.



2-9. Removal of the Fan Motor Unit

- Remove the Rear Jack Plate.
- 2. Unscrew the 2 screws.
- Disconnect the connector which is connected to the POWER P.C.Board, then remove the Fan Motor Unit.



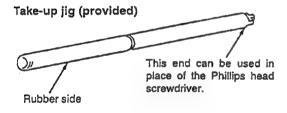
3. Manual Tape Eject

When a tape can not be ejected, because of Power failure or mechanical tape damage, remove the tape manually.

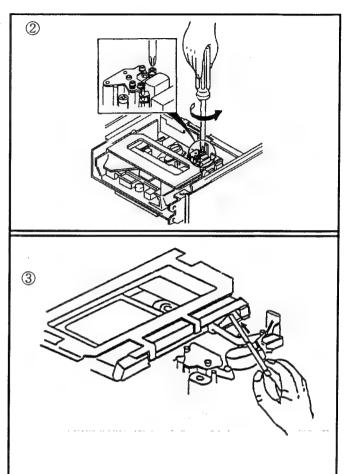
- 1. Turns power off and remove the top Case Unit.
- Rotate the red plastic screw by a Phillips head screwdriver counterclockwise pushing the screw. It needs to rotate about 30 times rotation until starting to move.
- Since tape slack will develop when the post is unloaded, wind up the supply reel to take up the slack.

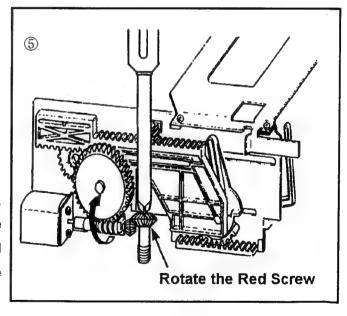
How to take up the slack (see ③)

- a. Insert the rubber side of the take-up jig into the cassette tape withdrawal opening on the VTR's mechanism side.
- b. Turn the flange part of the supply reel in the direction of take-up to take up the tape slack.
 (Take care not to damage the tape in the process.)



- Repeat item 2 and 3 until the tape in wound Completely inside of the cassette.
- 5. When the tape is completely inside of the cassette, rotate the red screw in front of the worm gear of the cassette down motor clockwise by a Philips-head screwdriver pusing the screw and remove the cassette cover does not bite the tape when the cover is closed.





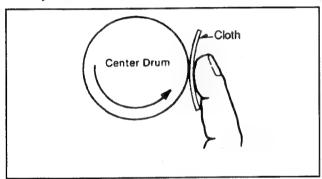
4. Cleaning Procedures

Note: Turns power off during cleaning.

Make sure the power is OFF before cleaning. Use ethanol(more than 99% purity) as cleaning liquid.

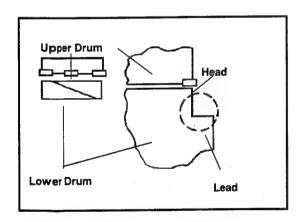
4-1 Cleaning of Head Chips: (Daily)

Clean heads by applying even pressure and rotating cylinder a few times. Never wipe in up and down motion. Never touch a cylinder by naked hand. First wipe with a cloth soaked by cleaning liquid. Then wipe with dry cloth.



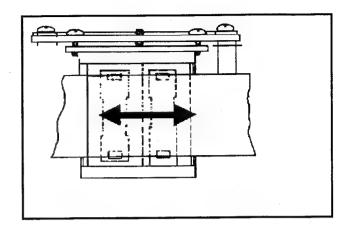
4-2. Cleaning of Drum Lead: (Weekly)

Be careful not to touch a head chip. Clean the drum lead with a pick.



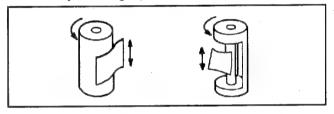
4-3. Cleaning of A/C Head: (Weekly)

Wipe the A/C head with a cloth soaked by cleaning liquid. Wipe again with a dry cloth.



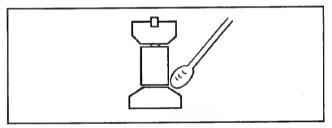
4-4. Cleaning of Pinch Roller and Capstan: (Weekly)

Wipe the Pinch Roller and Capstan with a cloth soaked by cleaning liquid.



4-5. Cleaning of Post :(Weekly)

Wind a cloth on a pick. Wipe each post dry with that pick . Wipe again with a dry cloth. For metal posts wipe with cleaning liquid. Then wipe dry again.



Note:

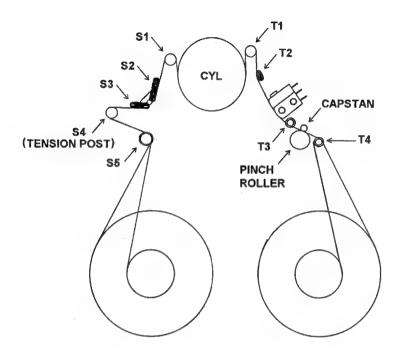
Use the clean cloth for cleaning purpose. Do not use any dirty cloth.

The Cleaning Cloth can be ordered as spare part. The part number indicated as below.

CLEANING CLOTH: VZZ0095

5. Mechanical Adjustment

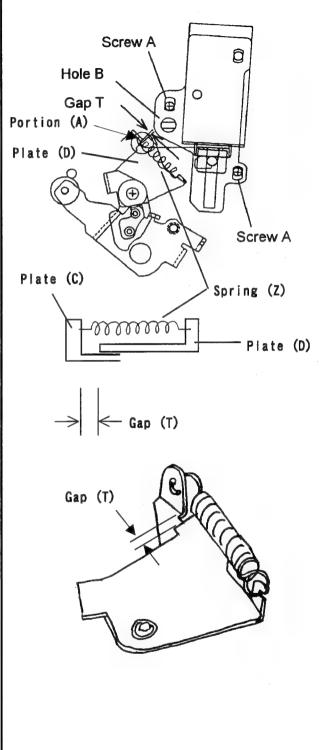
5-1. Name of tape transportation



5-2.Pinch Solenoid Position Adjustment		
SPEC.	T = 0.3mm	

TEST POINT	Gap T
ADJUSTMEN	Screw(A), Hole(B)
MODE	EJECT (Power OFF)
TOOL	VFK0357(Eccentric Driver)

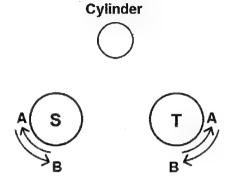
- 1. Confirm the power of condition at VTR.
- 2. Push the pinch roller by hand to be close to capstan.
- 3. Push the pinch solenoid by hand so that the pinch roller contacts capstan.
- Loosen the two screws (A) and adjust the hole (B) by VFK0357 so that gap (T) is within specification.
- 5. The position for confirm Gap, which is located spring scratch to Plate (C) side.



5-3. Main Brake Torque Confirmation		
SPEC	Direction A = 40±20g·cm	
	Direction B = 20±10g·cm	
TEST POINT	S reel. T Reel	
MODE	EJECT (POWER OFF)	
TOOL	VFK71(150g), VFK1191(45g), VFK1152	



- 2. Install the adapter(VFK1152) to the torque gauge (VFK71).
- Put the torque gauge on S Reel and Turn the torque gauge to direction A until S Reel slips against brake.
- 4. Confirm the torque is within specification.
- Put the torque gauge on T Reel and turn the torque gauge to direction A until T Reel slips against brake.
- 6. Confirm the torque is within specification
- 7. Install the adapter(VFK1152) to the torque gauge (VFK1191).
- Put the torque gauge on S Reel and turn the torque gauge to direction B until S Reel slips against brake.
- 9. Confirm the torque is within specification.
- Put the torque gauge on T Reel and turn the torque gauge to direction B until T Reel slips against brake.
- 11. Confirm the torque is within specification.



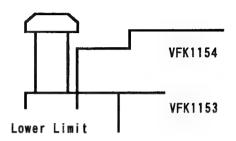
5-4. Post Height Pre-adjustment

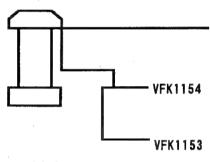
MODE	EJECT (POWER OFF)
TOOL	VFK1153, VFK1154 (Flange Tool)

- Confirm that the Reel Table is located at M-Cassette position.
- Install the Mech. Neutral Plate (VFK1153) and adjust each post height as shown in figure.
- 3. Adjust the each post to Lower limit by VFK1154 as shown in figure.
- VFK1149 use for Post height adjustment of S4 and S5 post. VFK1151 use for Post height adjustment of T3 and T4 post.

Post	Limit	Post Driver
S5 Post	Lower*	VFK1149
S4 Post	Lower*	VFK1149
T3 Post	Lower	VFK1151(2.5mm Nut Driver)
T4 Post	Lower	VFK1151(2.5mm Nut Driver)

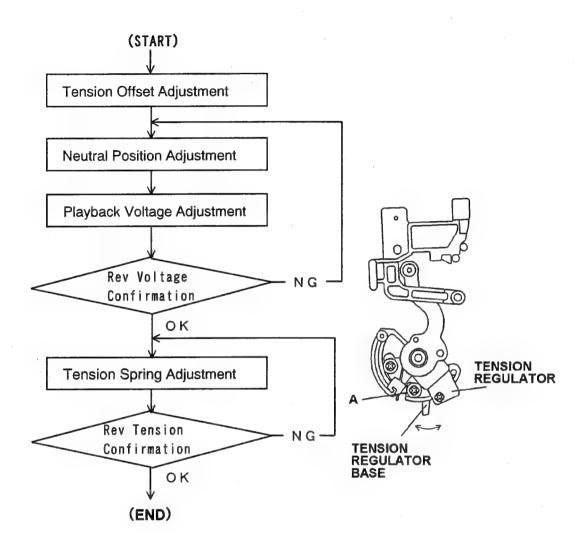
Note: Lower* : Turn S4 and S5 posts 1 round more counterclockwise from lower limit position.





Upper Limit

5-5. Tension Adjustment Flowchart



5-6. Tension	n Offset Adjustment
BOARD	RF
SPEC 2.5±0.05V	
TEST POINT	TP5901 (TP901 on RF Board.)
ADJUSTMENT	A05:TENSION OFST (SERVO ADJUST)
MODE	EJECT
TOOL	Digital Volt Meter
1. Open to Service "A05:TE 2. adjust ti	he SERVO ADJUST menu on menu and select the item NSION OFST" he EVR(A05:TENSION OFST) so DC voltage at TP901 is within

5-7. Tens	ion Arm Neutral Position Ac	djustment
BOARD	RF	
SPEC	2.5±0.1V	(VFK1208)
TEST POINT	TP5901(TP901 on RF Board)	Tension Arm
ADJUSTMENT	Base position of Tension Regulator	
	Board	
MODE	STOP	
TOOL	Digital Volt Meter	
	VFK1208 (Black, with hole)	`

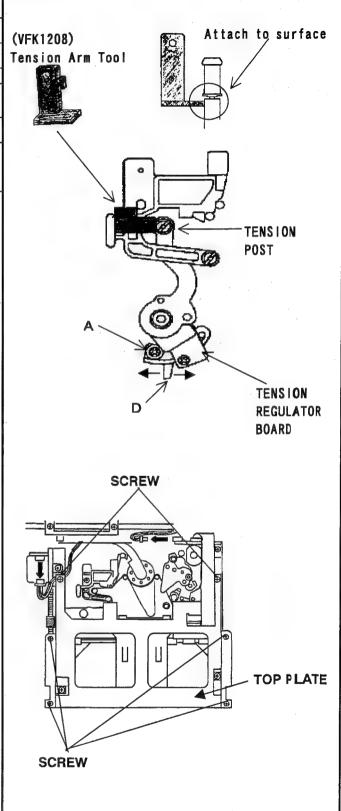
- Unscrew the 2 screws and remove the Carriage Support Panel on the Front Loading Unit.
- Disconnect the connector P3 on the Carriage Board of the Front Loading Unit..
- 3. Unscrew the 6 screws and remove the Top Plate on the Front Loading Unit.
- 4. Install the VFK1208(black with hole) as shown in figure
- 5. Connect the Digital Volt Meter to Test point.
- Place the unit into the no tape loading mode(Refer to No tape loading mode procedure as mentioned as below.
- Loosen the screw (A) and move the lever
 (D) with tweezers for adjust the sensor position so that the DC voltage at TP901 is within specification.

[No tape loading procedures]

Open the SERVO ADJUST menu on the Service menu and select the "A05:TENSION OFST". Press [BIGIN] button, then loading is started. During adjustment, keep loading condition. (After finish

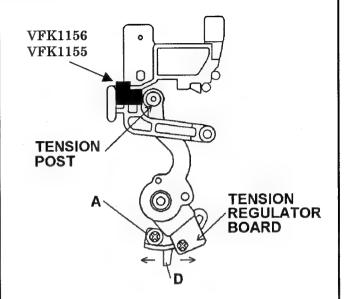
Adjustment ,press [BIGIN] button again to unloading action.)

- CAUTION: 1. Do not use magnetized tweezers and Screw driver.
 - Do not touch the magnetize Screw driver to S-Reel FG magnet portion, when the lever (D) portion is adjusting.



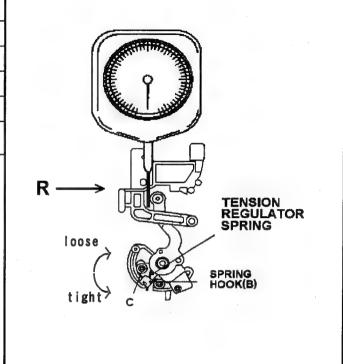
5-8. Tension Arm PLAY and REV voltage adjustment		
BOARD	RF	
SPEC	(PLAY) 3.8±0.05V (REV) 1.2±0.3V	VFK11
TEST POINT	TP5901 (TP901 on RF Board)	VFK11
ADJUSTMENT	VR9501 (VR501 on Mother Board)	
MODE	STOP	
TOOL	Digital Volt Meter VFK1156(Black:for PLAY position) VFK1155(White:for REV position)	TENS POST

- 1. Install the VFK1156(black) as shown in figure.
- 2. Connect the Digital Volt Meter to Test point.
- 3. Place the unit into no tape loading mode.
- 4. Adjust the VR501 so that the DC voltage at TP901 is within specification (PLAY).
- 5. Install the VFK1155 as shown in figure and confirm that the DC voltage at TP901 is within specification (REV).
- 6. If it out of spec, perform the Neutral Position adjustment again.



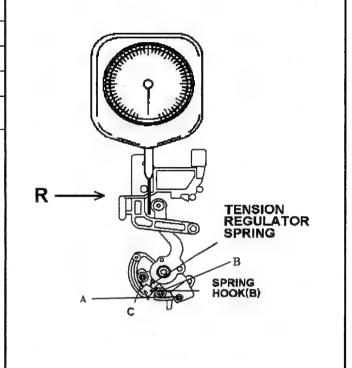
5-9. Tension Regulator Spring Adjustment		
BOARD	RF	
SPEC	11±1gf	
TEST POINT	TP5901(TP901 on RF Board)	
ADJUSTMENT	Tension Regulator Spring hook (B)	
MODE	STOP	
TOOL	Digital Volt Meter VFK1188(30g Dial Tension Gauge)	

- 1. Connect the Digital Volt Meter to Test point.
- 2. Place the VTR into no tape loading mode.
- 3. Insert the tension gauge to push the tension post to the direction R until the voltage at the TP901 is 3.8V (PLAY position)
- 4. Loosen the screw (C) and adjust the position of hook (B) so that the indication of gauge is within specification..



5-10. REV Tension Confirmation		
BOARD	RF	
SPEC.	18±2gf	
TEST POINT	TP201 (SERVO:F1)	
MODE	STOP	
M.EQ	Digital Volt Meter VFK1188(30g Dial Tension Gauge)	

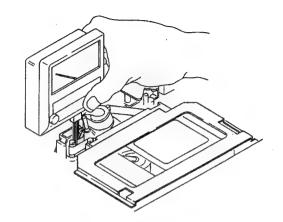
- 1. Connect the Digital Volt Meter to Test point.
- 2. Place the VTR into no tape loading mode.
- Insert the tension gauge to push the tension post to the direction R until the voltage at the TP901 is 1.2V (REV position)
- 4. Confirm that the indication of gauge is within specification. If not, make the Tension Spring Adjustment again.
- After finish this adjustment, grew the screw A,B and C. The grew quantity at B is half of A and C.



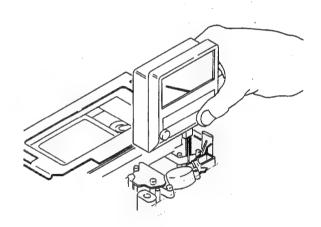
5-11. Tension Confirmation		
SPEC	(PLAY)6.0±1gf	
	(REV) 9.0±2gf	
MODE	PLAY. REV×1	
TAPE	63 min M size Blank Tape	
TOOL	VFK1145(Tension Meter)	

- 1. Play back beginning portion of the tape.
- 2. Insert the tension meter between **S3 post** and **S4 post**.(Refer to figure).
- 3. Confirm the tension is within specification.
- 4. Place the unit in REV mode.
- 5. Insert the tension meter between **S4 post** and **S5 post**.(Refer to figure)
- 6. Confirm the tension is within specification.

NOTE: Be careful not to give some tape damage.

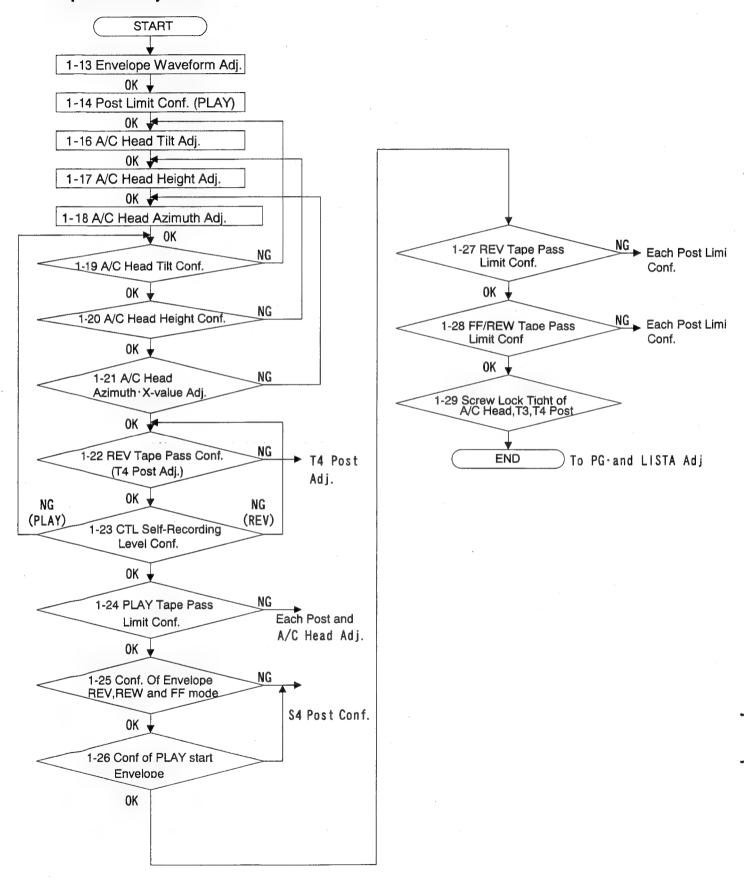


Play Tension

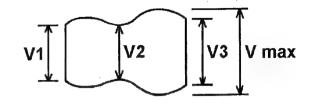


Rev Tension

5-12. Tape Pass Adjustment Procedure



5-13. Envelope Waveform Adjustment	
SPEC	V1/Vmax, V2/Vmax, V3/Vmax ≥ 0.8
TEST POINT	TP5251:R/P ENV (TP251 on RF Board.)
	(RP ENV is selected by Service menu)
	TP5759:TRIG(TP759 on RF Board.)
ADJUSTMENT	S1. T1 Post Height
MODE	PLAY(ATF)
TAPE	NTSC: VFM3580KM
	PAL: VFM3680KM
M.EQ	Oscilloscope
TOOL	VFK1149(Post Driver)



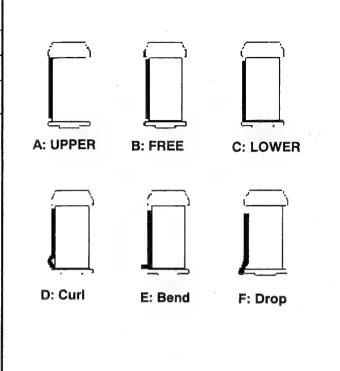
- 1. Open the MODE SELECT menu on Service menu and set the item "B05 PB HEAD" to "RP" (counter displayed 00001).
- 2. Playback the alignment tape.
- Adjust S1 and T1 post height so that the R/P envelope output is within the specification.
- 4. When the S1 and T1 posts are adjusted, first raise the post height and make small the entrance and exit side of the envelope, then down the post until envelope becomes flat.
- With order to adjustment, basically adjust T1
 post for makes flat at exit side of envelope
 first and adjust S1 post.
- After finish this adjustment, unload the tape and load the tape again, then confirm the shape of Envelope waveform does not changed.

5-14 Post Limit Confirmation (PLAY)	
SPEC	Post limit shown in the table No tape curl
MODE	PLAY
TAPE	Blank Tape
TOOL	VFK1149(Post Driver) VFK1151(Nut Driver)

Confirm that the tape pass limit follow the as shown as below table and adjust it in case of need.

Confirm that the kinds of D.E and F 2. condition do not appeared on the tape as shown in figure.

Post	Limit	Adjustment
S5	Lower limit or Free	S5 Post Height
S4	Lower Limit	S4 Post Height
S1	Upper Limit	Envelope waveform
T1	Upper Limit	Envelope waveform
ТЗ	Lower Limit	T3 Post Height
T4	Lower limit or Free	T4 Post Height

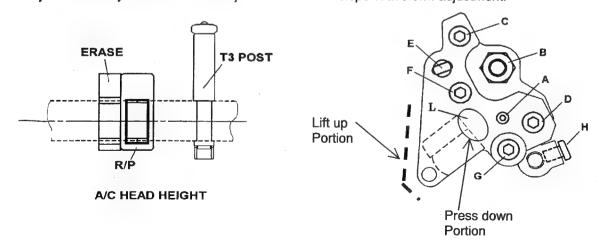


5-15. A/C Head Adjustment Method

Adjustment Item	SCREW	Adjustment Method	Torque
Tilt adjustment	Α	Tighten direction · · · Decrease CUE	
		Loosen direction · · · Increase CUE	
Height	В	Tighten direction · · In case of increase CTL, when	
adjustment		A/C Head Press down.	
		Loosen direction • • In case of increase CTL, when	
		A/C Head lift up.	
Azimuth	F	Phase is adjusted by screw F	
adjustment			
X-value	C	Adjust X-value by VFK0357 at Hole (E), then	
adjustment	D	tighten the screw (C) and (D) to fix A/C Head	
		horizontal position.	
Fixed	G	Screw (G) is always tighten during adjustment	1.0Kg.cm
Tilt and Azimuth		except Tilt and Azimuth.	
Fixed height	Н	After height adjustment, tighten the screw (H) to fix	
		height of A/C Head.	

SCREW	Tool for adjustment	
Α	VFK1178 (0.89mm Hex Driver)	
В	VFK1150 (5.5mm Tool for adjustment)	
F	VFK1148 (1.5mm Hex Driver)	
C,D,G	VFK1209 (Torque Driver)	
	VFK1375 (1.5mm Post Axis Driver)	
Н	VFK1190 (1.5mm L type of Hex Wrench)	

- 1. Each adjustment of A/C Head should be perform under the screw (G) tightened.
- 2. Confirm the screw (A) does not loosen, before execute the A/C Head Tilt adjustment. The screw (A) should be always touch to top of A/C Head.
- 3. Be careful the tape damage at T3 Post, when adjust tilt of A/C Head.
- 4. When the height of A/C Head is adjusted by Nut (B), first the screw (H) should be loosen. And after height adjustment finished, tighten the screw (H) lightly.
- 5. Each adjustment of A/C Head should be finished at the condition of turn the each adjustment screw tighten direction. And hit the portion (L) lightly for remove the distortion.
- 6. Adjust alternately each A/C Head adjustment with Envelope Waveform adjustment.

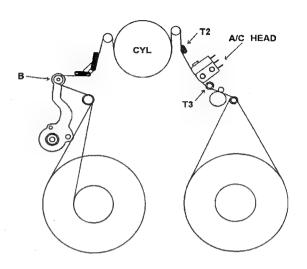


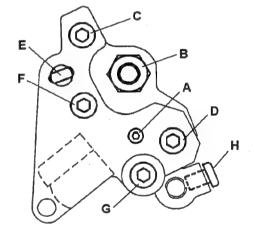
5-16. A/C Head Tilt Adjustment		
SPEC	Lower limit at T3 Post No tape curl	
ADJUSTMENT	SCREW A and G (A/C Head)	
MODE	PLAY	
TAPE	Blank Tape	
M.EQ	VFK1148. VFK1178(Hex Driver)	

- Play back the tape and adjust screw(A) for adjustment of tilt of A/C Head so that the tape path has lower limit without curl at T3 post.
- To adjustment, loosen the screw (G) and make curl on tape at lower flange of T3 post by screw (A). And tighten screw (A) accordingly for find the point of curl disappeared. After finish adjustment for screw (A), tighten the screw (G) is tightened with 1.0Kg/cm of torque.

(NOTE)

- In case of turn clockwise screw (A).
 → Tape goes up at T3 post.
 - In case of turn counter-clockwise screw (A).
 - → Tape goes down at T3 post.
- When screw adjustment finished, with each adjustment screw on A/C Head should be finished tighten direction. And confirm that the screw does not loosen.
- Adjust and confirmation should be performed alternately with each A/C head adjustment(Azimuth and Height).



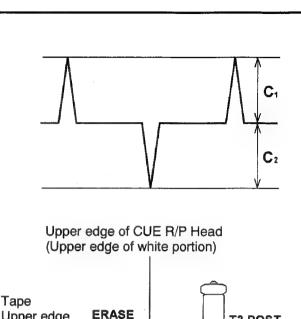


5-17. A/C Head Height adjustment	
BOARD	RF
SPEC	CTL Output (C1,C2≧160mV)
TEST POINT	TP5903(TP903 on RF Board)
ADJUSTMENT	SCREW B and H (A/C Head)
MODE	PLAY
TAPE	NTSC: VFM3580KM (14 to 22 min)
	PAL: VFM3680KM (14 to 22 min)
M.EQ	Oscilloscope
TOOL	VFK1150(Nut Driver) VFK1190(Hex Wrench)

- 1. Observe the CTL output (TP903) on the Servo board.
- 2. Press and Lift up to A/C Head lightly as indicated as figure position, then confirm that the CTL output level is decreased.
- If increases CTL output, when press the A/C Head. Loosen the screw H and adjust the screw B counterclockwise until CTL output is maximized.
- If increases CTL output, when lift up the A/C Head. Loosen the screw H and adjust the screw B clockwise until CTL output is maximized.
- After tightening the screw H(2.0kg), confirm the level again.

< NOTE >

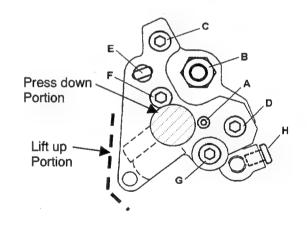
Adjust alternately with other A/C head adjustments(Azimuth, Height).



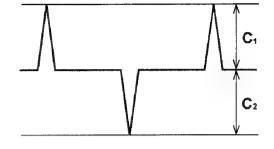
A/C HEAD HEIGHT

T3 POST

Upper edge



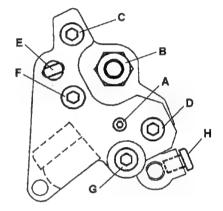
5-18. A/C Head Azimuth Adjustment	
BOARD	SERVO
SPEC	CTL Output:C1,C2 = C1 max. C2 max
TEST POINT	TP5903(TP903 on RF Board)
ADJUSTMENT	SCREW F (A/C Head)
MODE	PLAY
TAPE	NTSC: VFM3580KM (14 to 22 min)
	PAL: VFM3680KM (14 to 22 min)
M.EQ	Oscilloscope
TOOL	VFK1148(Hex Driver)



- Observe the CTL output (TP903) on the Servo Board.
- To adjustment, loosen the screw (G) and adjust screw (F) so that the CTL output become maximum.
- 3. Tighten screw (G) with 1.0Kg torque.

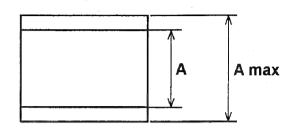


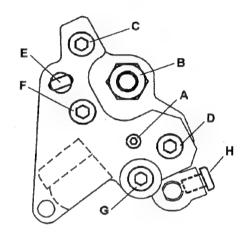
Adjust alternately with other A/C head adjustments(Azimuth, Height).

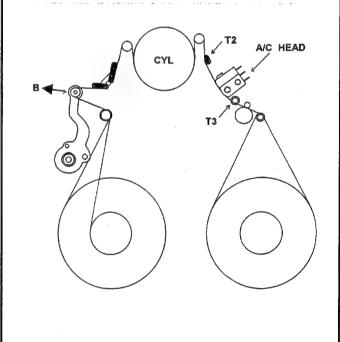


5-19. A/C Head Tilt Confirmation	
SPEC	A/Amax ≥ 0.8
TEST POINT	TP40701 (TP701on AUDIO Board)
ADJUSTMENT	SCREW A and G (A/C Head)
MODE	PLAY
TAPE	NTSC:VFM3580KM (14 to 22 min)
	PAL: VFM3680KM (14 to 22 min)
M.EQ	Oscilloscope
TOOL	VFK1178、VFK1148(Hex Driver)

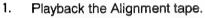
- 1. Playback the Alignment tape.
- 2. Confirm that the **screw G** and **H** are not loosened.
- Push the tension arm follow the arrow (B) direction as shown in figure as range of T2 post does not move. And confirm that the CUE output level is within specification.
- 4. If out of specification, loosen the **screw G** and adjust the **screw A**, then tighten the **screw G** with **1.0kg** torque.
- 5. The final touch of the adjustment must be turned clockwise. After this adjustment, confirm that the screw A is not loosened.
- 6. If adjust the screw A, Confirm that the tape pass condition follow Post Limit Confirmation procedure (item 1-14).



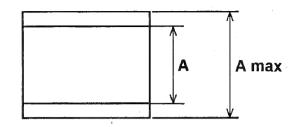


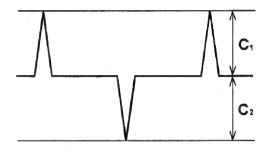


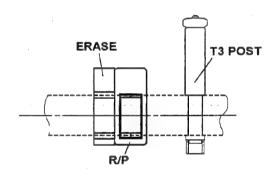
5-20. A/C Head Height Confirmation		
SPEC	A≧0.95×Amax、C1、C2 ≥ 160mV	
TEST POINT	TP40701 (TP701 on AUDIO Board) TP5903 (TP903 on RF Board)	
ADJUSTMENT	SCREW B and H(A/C Head)	
MODE	PLAY	
TAPE	NTSC: VFM3580KM (14 to 22 min)	
	PAL: VFM3680KM (14 to 22 min)	
M.EQ	Oscilloscope	
TOOL	VFK1150(Nut Driver)	
	VFK1190(Hex Wrench)	



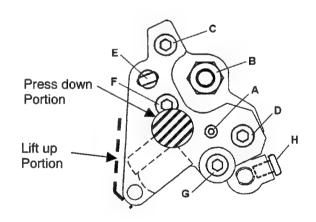
- Press and Lift up to A/C Head lightly as indicated as figure position, then confirm that the CUE output level at TP701 does not increased.
- If increases CUE output, A/C Head Height adjustment performed. And also confirm that the CTL output level.
- If adjust the height of A/C Head, Azimuth also changed. Therefore adjust and confirm alternately Height and Azimuth of A/C Head.
- After screw (H) is tightened, height and tilt of A/C Head are changed. Therefore confirmation of specification must be done after tightening the screw (H).







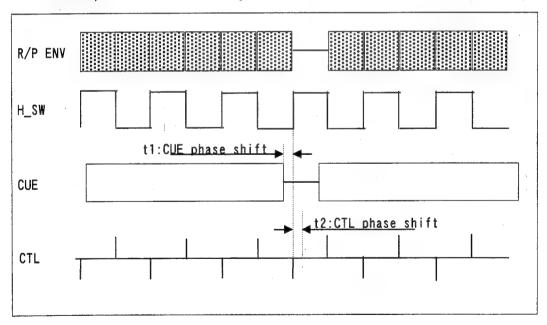
A/C HEAD HEIGHT

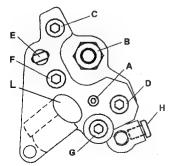


5-21. A/C Head Azimuth and X-value Adjustment.

SPEC. ADJUSTMENT	As shown in below figure. 250us≦t1, t2≦+250us A/C Head each screws	TEST POINT	TP5251:RP ENV (TP251 on RF Board.) TP5759:RP HSW (TP759 on RF Board.) TP40701:CUE (TP701 on AUDIO Board.) TP5903:CTL (TP903 on RF Board.)
MODE	PLAY (SERVO ADJUST: A09:RP LINEAR)	M.EQ	Oscilloscope
TAPE	NTSC: VFM3582KM (X-value) PAL: VFM3682KM (X-value)	TOOL	VFK0357(Eccentric Screwdriver)

- 1. Open the Servo Adjust menu on Service menu and set the item "B05:PB HEAD" to "RP" (counter displayed 00001).
- 2. Open the Service menu and select the item "A09:RP LINEAR" on Servo Adjust menu for RP Head ATF Playback.
- 3. Playback the X-value Alignment tape.
- 4. Confirm that the phase of CUE and CTL are within specification against RP HSW pulse trigger. If not perform the X-value adjustment follow the below procedure.
- 5. Adjust A/C Head Azimuth (refer to Azimuth adjustment procedure) so that the CTL and Lack part of CUE(t2) is match in the phase.
- 6. Confirm the lack track of envelope, and select the HSW correspond with it (The lack track is correspond HSW high with L ch).
- 7. Adjust X-value so that the reference of HSW and CTL trigger (CTL falling edge is the reference: refer to below figure) are match in the phase(t1). To adjust X-value, loosen the screw C and D, adjust the hole E by VFK0357. After adjustment tighten the screw C and D with 2.5Kg torque. At this time adjust the phase simultaneously with Azimuth so that the CTL and CUE phase is kept.
- 8. Hit the top plate (portion L as shown in below figure) of A/C Head lightly by a pointed end of Eccentric driver, then confirm the phase is not shifted finally.





5-22. REV Tape Pass Confirmation and Adjustment (T4 post height adjustment)

SPEC.	C1, C2≧Cp1, Cp2×0.75	TAPE	NTSC: VFM3580KM
	Lower limit at T3 post on REV		PAL: VFM3680KM
	mode		
TEST POINT	TP5903(TP903 on RF Board.)	M.EQ	Oscilloscope
ADJUSTMENT	T4 post height	TOOL	VFK1151(Nut Driver)
MODE	REV×1		

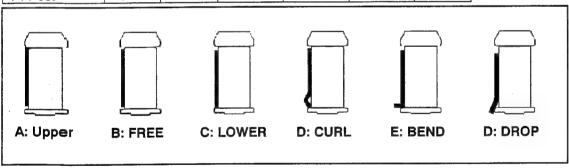
- 1. Place unit into REV mode, and confirm the post limit and CTL signal are in the specification. IF not, adjust T4 post follow the below procedure.
- 2. Turn the Nut of T4 post clockwise or counterclockwise follow the tape limit condition at T3 post. The maximum rotation angle is 90 degree.
- 3. Place unit into REV X1 mode and confirm the CTL output level is become more than 75% on play mode. Confirm the tape pass limit become lower limit at T3 post and the tape does not have curl at T3 and T4 post.
- 4. However out of specification, adjust T4 post height follow the Post Height Pre-adjustment procedure.

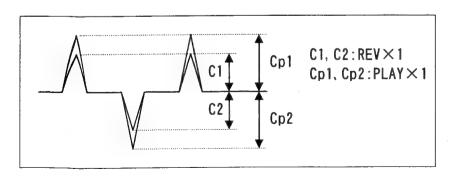
T4 Nut adjustment direction

, i tratadadinon another					
Direction of adjustment nut of T4	CTL level on REV	Lower limit at T3 post			
post	mode On REV mode				
Tighten direction	Increase	Tape touch to strong			
Loosen direction	Decrease	Tape touch to weak			

Post Limit

1 OOL LITTIE						
			Тар	e limit		
Post Name	Α	В	C	D	E	F
T3 Post	×	×	0	×	×	×
T4 Post	0	0	0	×	×	×





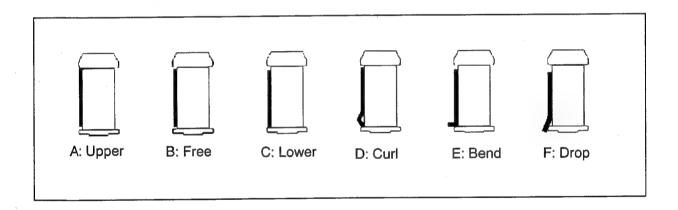
	elt Record	ing Level Confir	mation						
SPEC.	Refer to bel								
TEST POINT	TP5903 (TP	903 on RF Board)			Λ		χ	_	
MODE	REC and Pl			/\		$\setminus \land \uparrow_{c_1} \mid$			
TAPE	Blank tape				/ _		_/ _	<u> </u>	
M.EQ	Oscilloscope	е				\ /		C2	
NOTE: This confirmation should be done after each screws of A/C Head are fixed. 1. Record the blank tape. 2. Playback the recorded portion and confirm the CTL level is within specification as shown as below table on PLAY and REV X1 mode.			he			<u>V</u>			
	CTL Output Le				CTL O	utput Leve	I C1,C2		
PLAY C1,C2≧16		REV×1 C1,C2≧120mV							
	adjustment.	the A/C Head heig							
			-						

5-24. PLAY Tape Pass Limit Confirmation

SPEC.	Each Post limit shown in table
MODE	PLAY
TAPE	M cassette (MP tape) tape. Tape beginning and end portion

Post Name	Tape Limit (Refer the figure))	Adjustment			
	Α	В	С	D	E	F		
S5 post	Х	0	0	Х	Х	Х	-S4, S5 Post	Post Height Pre-Adj.
S4 post	Х	Х	0	Х	Х	Х	34, 33 1 081	Post Height Fre-Adj.
S1 post	0	Х	Х	Х	X	X	S1 Post	Envelope waveform Adj.
T1 post	0	Х	Х	X	X	Х	T1 Post	Envelope waveform Adj.
T3 post	Х	Х	0	Х	Х	Х	A/C Head tilt	A/C Head tilt Adj.
T4 post	Х	0	0	Х	X	X	T4 Post	Post Height Pre-Adj

- 1. Place unit into PLAY mode and confirm the each post limits is within specification.
- 2. If out of specification, adjust the post height follow the each adjustment procedure (Refer to above table).

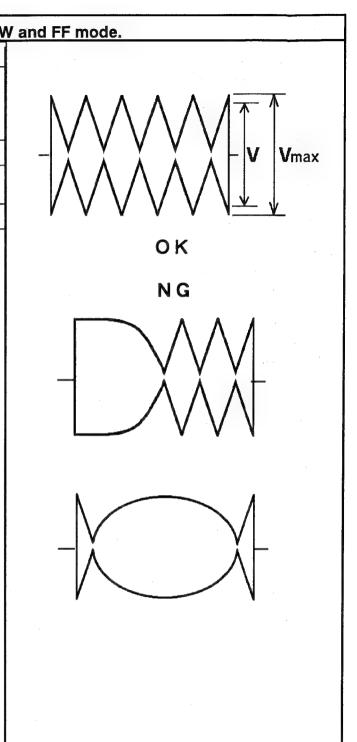


5-25. Confii	5-25. Confirmation of Envelope on REV,RE				
SPEC.	V/Vmax ≥ 0.9				
TEST POINT	TP5251:R/P ENV (TP251 on RF Board.)				
	(RP ENV is selected by Service menu)				
	TP5759:TRIG(TP759 on RF Board)				
MODE	REV. REW. FF				
TAPE	NTSC: VFM3580KM				
	PAL: VFM3680KM				
M.EQ	Oscilloscope				

- 1. Open the Servo Adjust menu on Service menu and set the item "B05:PB HEAD" to "RP"(counter displayed 00001).
- Confirm that the Envelope waveform becomes in the specification on REV,REW and FF mode as refer to figure and below.
 - · Waveform must be Diamond Style.
 - All the peak level must be more than 90% of maximum level.

V/Vmax ≥ 0.9

2. If out of spec, adjust S4 post height.



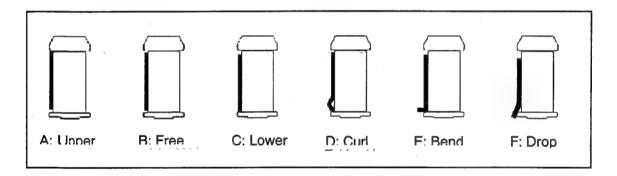
EST POINT	mation of Play Start Envelope TP5251:R/P ENV (TP251 on RF Board)	_
	(RP ENV is selected by Service menu)	OK
	TP5759:TRIG(TP759 on RF Board)	
	REW/REV → PLAY	
MODE	Loading completion → PLAY FF → PLAY	
TAPE	L cassette(123min, Recorded tape) Tape beginning portion	
M.EQ	Oscilloscope	
Envelo	adjustment must be done after ope Waveform Adjustment. The Servo Adjust menu on Service and set the item "B05:PB HEAD" to nunter displayed 00001). In that the envelope appears ately, when the mode is changed EW to PLAY, REV to PLAY, FF to and Lording to PLAY mode. I spec, adjust S4 post height.	N G

5-27. Tape Pass Limit Confirmation

SPEC	Each Post limit shown in table.					
MODE	REV					
TAPE	M cassette (MP tape) tape. Tape beginning and end portion					

Post Name		Tape Limit(Refer to figure)							
	Α	В	С	D	E	F			
S5 Post	0	0	0	Х	Х	X			
S4(Tension) Post	Х	0	0	Х	Х	Х			
S1 Post	0	Х	Х	Х	Х	Х			
T1 Post	0	0	0	Х	Х	Х			
T3 Post	Х	Х	0	Х	Х	Х			
T4 Post	Х	Х	0	Х	Х	Х			

- 1. Place unit into REV mode and confirm the each post limits is within specification.
- 2. If out of specification, adjust the post height follow the each adjustment procedure (Refer to above table).

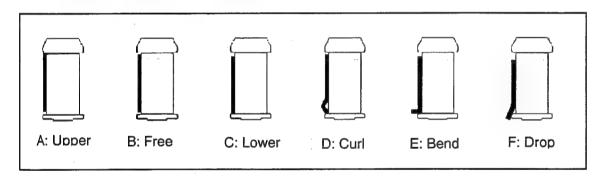


5-28. FF, REW Tape Pass Limit Confirmation

SPEC.	Each Post limit shown in table.
MODE	FF,REW
TAPE	M cassette (MP tape) tape. Tape beginning and end portion

Post Name	Tape Limit(Refer to figurte)					
	Α	В	С	D	·Ε	F
S5 Post	0	0	0	X	Х	Х
S4(Tension) Post	Х	0	0	Х	Х	Х
S1 Post	0	Х	Х	X	Х	Х
T1 Post	0	0	0	Х	Х	Х
T3 Post	0	0	0	Х	Х	Х
T4 Post	0	0	0	Х	Х	Х

- 1. Place unit into FF and REV mode and confirm the each post limits is within specification.
- 2. If out of specification, adjust the post height follow the each adjustment procedure (Refer to above table).

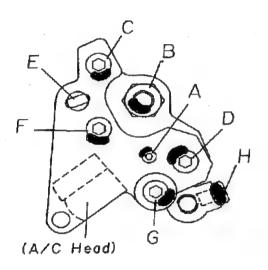


5-29. Screw Lock Tight of A/C Head and T3, T4 Post

[Screw Lock Tight of A/C Head]

	SCREW A	OTHER SCREW
Lock Tight Grew Quantity	1/3 of the screw	1/3 of the screw

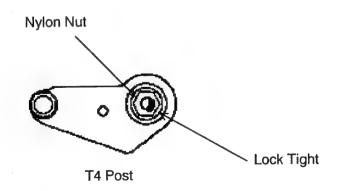
- 1. Fix the screw by the Lock Tight Grew after adjustment...
- 2. Before adjustment melt the Grew.



[Screw Lock Tight of T3 and T4 Post]

OCK TIGHT OF TO AND THE TOOL		
	T3 Post	T4 Post
Lock tight grew quantity	1/4 of the screw	1/4 of the screw

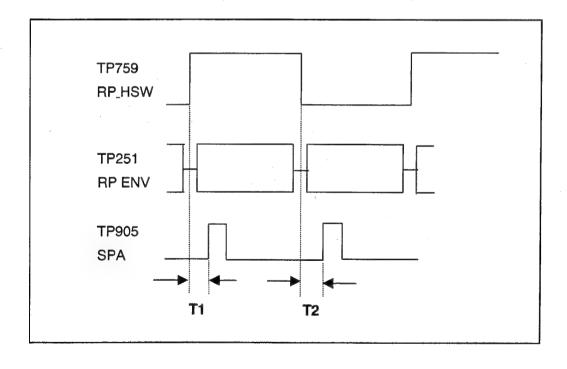
- 1. After adjustment, attach the lock tight grew at the Nylon nut..
- 2. Before adjustment, melt the Grew.



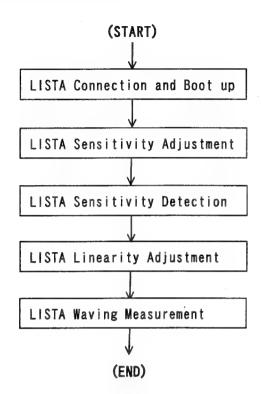
5-30. PG SHIFTER Adjustment

SPEC.	T1, T2 = $126.4 \mu \text{ sec} \pm 2 \mu \text{ sec}$.
MODE	PLAY
TEST POINT	TP5905: SPA (TP905 on RF Board)
1201101111	TP5759: R/P HSW (TP759 on RF Board)
	TP5251: R/P ENV (TP251 on RF Board)
ADJUSTMENT	A06:PG SFTR RISE、A07:PG SFTR FALL (SERVO ADJUST)
M.EQ	Oscilloscope
TAPE	NTSC: VFM3580KM
	PAL: VFM3680KM

- 1. Open the SERVO ADJUST menu on the Service menu and select the item " A06:PG SFTR RISE ".
- 2. Insert the Alignment tape and press [END]+[PLAY] button for unit place in playback mode.
- 3. After light up the SERVO indicator, keep press [BIGIN] until right side numerical value of Service menu "A06:PG SFTR RISE" once change to 0000 and next changes to new numerical value.
- 4. Press [UP] and select "A07 PG SFTR FALL".
- 5. Keep press [BIGIN] until right side numerical value of Service menu "A07:PG SFTR FALL" once change to 0000 and next changes to new numerical value.
- 6. Connect the scope to,TP905 and TP251 and TP759. Trigger the scope by TP759. Then it is displayed as shown in figure.
- 7. Confirm that the period of T1 and T2 in specification (126.4 μ sec $\pm 2\mu$ sec).



5-31. LISTA Adjustment Procedure.



5-32. LISTA Connection and Boot Up

TEST POINT	TP5902: ATF ERR (TP902 on RF Board)
	TP5757: PB HSW (TP757 on RF Board)
	TP5759: R/P HSW (TP759 on RF Board)
	TG5751: GND (TP751 on RF Board)
M.EQ	P/C (AD Board should be installed),Oscilloscope
TAPE	NTSC: VFM3581KM (LISTA alignment tape)
	PAL: VFM3681KM (LISTA alignment tape)
TOOL	VFK1481(LISTA Software), VFK1186(LISTA Cable)

- 1. Connect the LISTA Cable to A/D board on PC.
- 2. Connect the Clips of LISTA Cable to test point on RF Board as follow as below.
- ①.ATF: TP902 (ATF error)
- ②.HSW: TP759 (HSW:RP) or TP757 (HSW:PB)
- ③.GND: TG751 (GND)
- 3. Boot up the LISTA software on DOS mode.

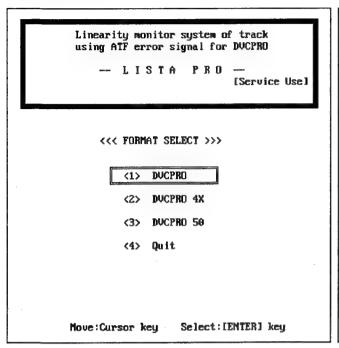
★ Install and Boot up.

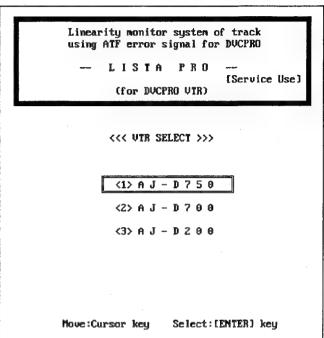
All files on the floppy disk (VFK1481) copy to created directly on PC(i.e. C:\(\frac{1}{2}\)LISTA).

Type "LISTA" and press ENTER Key, then boot up the LISTA software VFK1481

- 4. Select the item "DVCPRO" for format select on the menu.
- 5. Select the item "AJ-D750" for selected model on the menu. (AJ-D250 is equivalent to AJ-D750)
- 6. After selected model, appeared alignment tape data on the screen for select the Serial number on the alignment tape. But if LISTA software have not resisted data of alignment tape, press the ESC key, then main menu is display on the screen. And select item "<4> Alignment Tape" for entry the data on the attachment sheet, which is enclosed of alignment tape.

- 7. After boot up LISTA software, select the item " DVCPRO " for format select on the menu.
- 8. Select the item " AJ-D750 " for selected model on the menu (AJ-D250 is equivalent to AJ-D750).

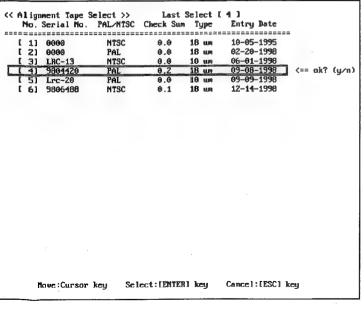




- 9. Next select the Serial number of the alignment tape on the screen. In case of LISTA software have not resisted data of alignment tape, press the ESC key, then main menu is display on the screen. And select item " <4> Alignment Tape " for entry the data on the attachment sheet, which is enclosed of alignment tape.
- 10.In case of LISTA software have resisted data of alignment tape, select the serial number of Alignment tape, then appear message "ok?(y/n)" on the screen. And press "Y" or "ENTER" key, then LISTA main menu is display on screen.

≪In case of Alignment tape resisted≫

≪In case of Alignment tape does not resisted≫



Align No.	ment Tape Serial Mo.	Select >> PAL/HTSC	Last S Check Sum	elect Type	[4] Entry Date
[1] [2]	9696 9690	ntsc Pal	0,0 0,0	18 um 18 um	10-05-1995 02-20-199B
н	ove:Cursor	key Sel	ect:[ENTER]	key	Cancel:[ESC] k

< How to Entry the Attachment Data of Alignment Tape >

- 1. Select the item " <4> Alignment Tape " on the main menu of the LISTA software.
- 2. Select the item " <2> ENTRY" on the alignment tape menu.
- 3. After display the screen of "<< Alignment tape Data Entry >> ", first input the Serial number follow the printed number on the tape label. And input the number "0" or "1" for select the PAL/NTSC. And after that for entry the tape type, in case of DVCPRO input to "0", in case of DV input to "1".
- 4. After select the Tape type, the frame for input the DATA and CHECK SUM appeared on the screen. Input the numerical value in numerical order on the data sheet, which are enclosed with alignment tape. If input the wrong number, appear the error message on the screen, then confirm that the data on the sheet.
- 5. After entry the data, select " $\langle 1 \rangle$ SELECT" on the Alignment Tape menu and select the serial number of the alignment tape.

<< Alignment Tape Data Entry>>

Serial No. 0596003 (NTSC)

18um

[1]	- 0.1
[2]	0. 1
[3]	0. 0
[4]	0. 2
[5]	0. 6
[6]	0. 5
[7]	0. 7
[8]	0. 9
[9]	1. 0
[10]	0. 8

[11]	0. 7
[12]	1. 0
[13]	0. 7
[14]	0. 5
[15]	0. 2
[16]	- 0.5
[17]	- 0.3
[18]	- 0.3
[19]	- 0. 1
[20]	- 0.6

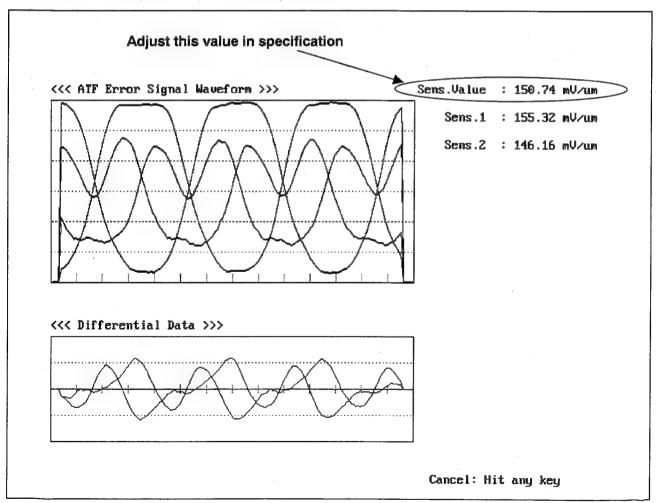
[21]	- 0.4
[22]	- 0. 2
[23]	- 0.7
[24]	- 0.6
[25]	- 0.7
[26]	- 0.3
[27]	- 0.4
[28]	- 0.4
[29]	- 0.6
[30]	- 0.3

[CS] - 0. 6

5-33. LISTA Sensitivity Adjustment (R/P Head)

SPEC.	Sensitivity:150±15 (mV/um)
MODE	PLAY
TEST POINT	TP5902: ATF ERR (TP902 on RF Board)
	TP5759: R/P HSW (TP759 on RF Board)
	TG5751: GND (TP751 on RF Board)
ADJUSTMENT	A08:RP GAIN (SERVO ADJUST)
TAPE	NTSC: VFM3581KM (LISTA)
	PAL: VFM3681KM (LISTA)

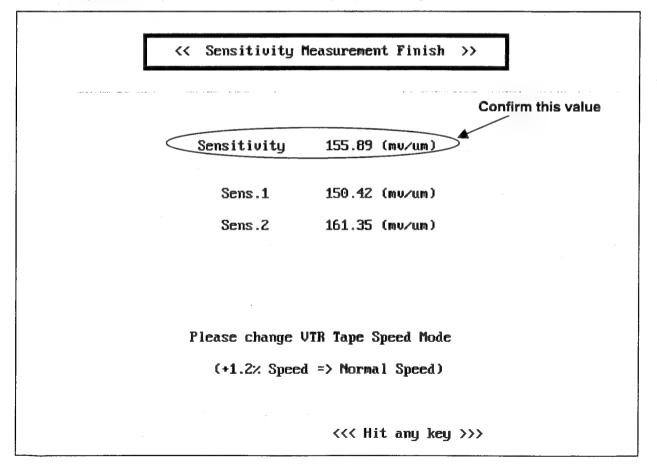
- 1. Connect the Test Point to clip of LISTA cable for ATF Error signal measurement.
- 2. Open the SERVO ADJUST menu on Service menu and select the EVR " A08:RP GAIN ".
- 3. Playback the LISTA alignment tape.
- 4. Select the "<6> ATF Error Signal Monitor" on the LISTA main menu and after appear the message " 1.2% Speed... ", press ENTER key, then sensitivity value as real time and waveform appear on the screen as shown as figure below.
- 5. Adjust EVR * A08:RP GAIN * so that the sensitivity value is within specification.
- 6. After finish this adjustment, press ESC key to exit to the main menu.



5-34. LISTA Sensitivity Detection (RP Head)

SPÉC	Sensitivity:150±15 (mV/um)
MODE	PLAY
TEST POINT	TP5902: ATF ERR (TP902 on RF Board)
120170111	TP5759: R/P HSW (TP759 on RF Board)
	TG5751: GND (TP751 on RF Board)
ADJUSTMENT	
TAPE	NTSC: VFM3581KM (LISTA)
	PAL: VFM3681KM (LISTA)

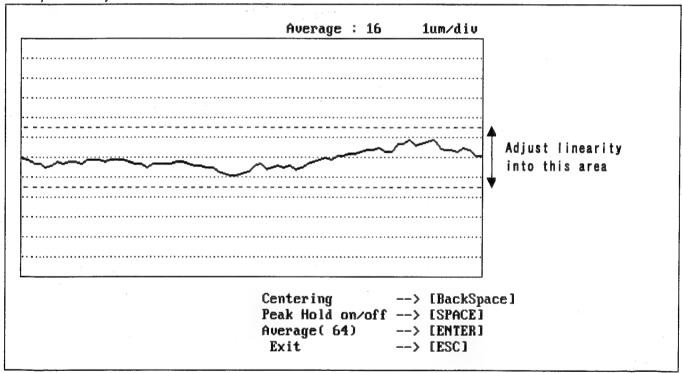
- 1. Open the SERVO ADJUST menu on Service menu and select the EVR " A08:RP GAIN ".
- 2. Playback the LISTA alignment tape.
- 3. Select the " <1>Sensitivity Measurement" on the LISTA main menu and after appear the message " 1.2% that Speed... ", press ENTER key, then LISTA software start measurement of sensitivity value.
- 4. Confirm the sensitivity value is within specification, when the message << Sensitivity Measurement Finish>> and 「Sensitivity = numerical value」 are displayed on the screen.
- 5. If out of specification, repeat the steps 3 and 4.
- 6. If still out of specification, perform the "LISTA Sensitivity Adjustment again.



5-35. LISTA Linearity Adjustment and Waving Measurement.

SPEC	Linearity: Less than 3um, Waving: Less than 1.5um
MODE	PLAY (EVR is select to "A09: RP LINEAR ")
TEST POINT	TP5902: ATF ERR (TP902 on RF Board)
120110111	TP5759: R/P HSW (TP759 on RF Board)
	TG5751: GND (TP751 on RF Board)
ADJUSTMENT	S1 and T1 Post Height
TAPE	NTSC: VFM3581KM (LISTA)
	PAL: VFM3681KM (LISTA)

- 1. Open the SERVO ADJUST menu on Service menu and select the EVR " A09: RP LINEAR "
- 2. Playback the LISTA alignment tape.
- 3. Select the item " (2) Linearity Measurement " on the LISTA main menu and display the linearity waveform.
- 4. When the waveform as shown as below figure is displayed on the screen, press the "BS (back space)" key for display the waveform to center of scale on the screen. And adjust height of S1 and T1 post by Post Driver so that the linearity waveform is become flat as possible, and it should be in the specification.
- ★ Adjust linearity waveform in the red dot line on the screen.



☆ POINT:

The part of left side of waveform(entrance side) is adjusted by height of S1 post and part of right side of waveform(exit side) is adjusted by height of T1 post.

Lower part of above waveform of figure is displayed lead on Cylinder.

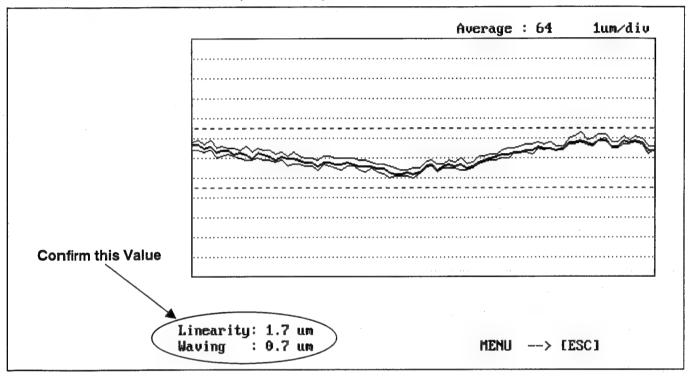
When the post driver is remove from upper part of post, linearity waveform is changed.

After finish this adjustment, eject the tape and insert the tape again for confirm the shape of linearity waveform does not changed.

5. After finish the linearity adjustment, measure the numerical value of linearity and waving.

* [Waving Measurement]

- 1. Press "SPACE" key for make the Peak Hold during 30 seconds, when linearity is displayed.
- 2. After finish the Peak Hold, press "SHIFT" and "}", key simultaneously on the Key Board, then display the numerical values of 「Linearity」 and 「Waving」 on left lower portion of screen. And confirm the numerical values are in the specification. Also confirm the range of waving waveform is same quantity from entrance side to exit side. If the 「Linearity」 and 「Waving」 are out of specification and it caused by not enough limit of entrance or exit side of envelope, then adjust height of S1 and T1 post.
- 3. After this measurement is finished, press ESC key for return to main menu.



* NOTE: Saving of LISTA Data

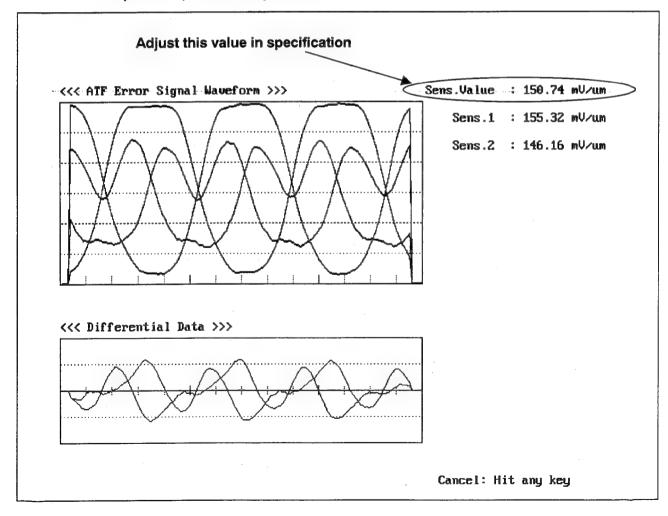
The LISTA software can be saved linearity waveform and measurement value of linearity and waving as one file data to PC.

- 1. Basically this operation should be performed after linearity and waving measurement finished.
- 2. Select the item \(\Gamma(3)\) Data Save/Load \(\J\) on the LISTA main menu. And after open the menu select the item \(\Gamma<1>\) Save\(\J\).
- 3. The linearity waveform as Peak Hold displayed on the screen. And after appeared message "File Name?" on the screen, entry the File Name and Comment. File Name must be in 8 characters, and comment is must be in 20 characters. As comment, entry the Serial Number, VTR Model Number and Head Rotation Hours etc, for use management of linearity data of each VTR.
- 4. After completion of saving, select the item Γ<2> LoadJ on the Γ(3) Data Save/LoadJ menu, then appear the saved File Name on the screen. And select it previous saved file for confirm the waveform and numerical value displayed correctly. By press "SHIFT" and "}", key simultaneously on the Key Board., then display the numerical values of ΓLinearityJ and ΓWavingJ on left lower portion of screen.

5-36. LISTA Sensitivity Adjustment (PB HEAD)

SPEC.	Sensitivity:150±15 (mV/um)
MODE	PLAY
TEST POINT	TP5902: ATF ERR (TP902 on RF Board)
1201101111	TP5757: PB HSW (TP757 on RF Board)
	TG5751: GND (TP751 on RF Board)
ADJUSTMENT	A10:PB GAIN
TAPE	NTSC: VFM3581KM (LISTA)
	PAL: VFM3681KM (LISTA)

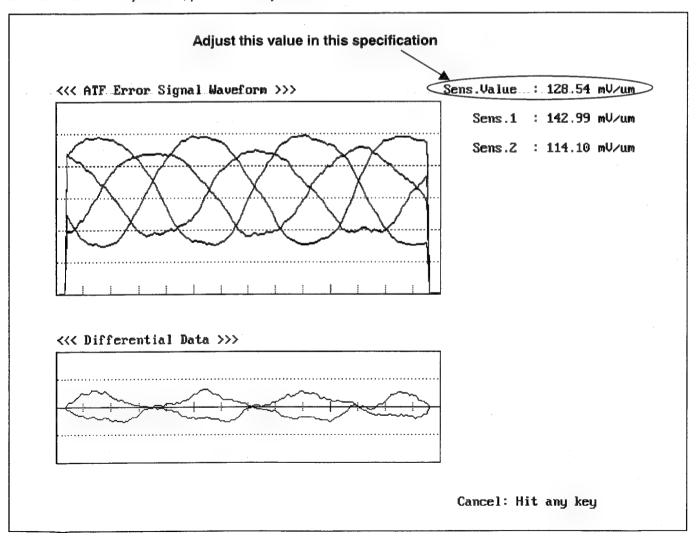
- 1. Connect the Test Point to clip of LISTA cable for ATF Error signal measurement.
- 2. Open the SERVO ADJUST menu on Service menu and select the EVR " A10:PB GAIN ".
- 3. Playback the LISTA alignment tape.
- 4. Select the "<6> ATF Error Signal Monitor" on the LISTA main menu and after appear the message " 1.2% Speed... ", press ENTER key, then sensitivity value as real time and waveform appear on the screen as shown as figure below.
- 5. Adjust EVR " A10 PB GAIN " so that the sensitivity value is within specification.
- 6. After finish this adjustment, press ESC key to exit to the main menu.



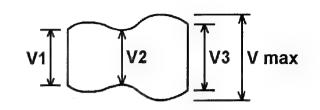
5-37. LISTA Sensitivity Adjustment (DV Compatibility)

SPEC.	Sensitivity:130±30 (mV/um)
MODE	PLAY
TEST POINT	TP5902: ATF ERR (TP902 on RF Board)
1207 1 01111	TP5759: RP HSW (TP759 on RF Board)
	TG5751: GND (TP751 on RF Board)
ADJUSTMENT	A12:DV GAIN
TAPE	NTSC: VFM3581KM (LISTA)
	PAL: VFM3681KM (LISTA)

- 1. Connect the Test Point to clip of LISTA cable for ATF Error signal measurement.
- 2. Open the SERVO ADJUST menu on Service menu and select the EVR " A12:DV GAIN ".
- 3. Playback the LISTA alignment tape.
- 4. Select the "<6> ATF Error Signal Monitor" on the LISTA main menu and after appear the message " 1.2% Speed... ", press ENTER key, then sensitivity value as real time and waveform appear on the screen as shown as figure below.
- 5. Adjust EVR " A12 DV GAIN " so that the sensitivity value is within specification.
- 6. After finish this adjustment, press ESC key to exit to the main menu.



5-38. Self-Recording Playback Envelope Waveform Confirmation				
SPEC	V1/Vmax、V2/Vmax、V3/Vmax ≥ 0.8			
TEST POINT	TP5251:R/P ENV (TP251 on RF Board)			
	(RP ENV is selected by Service menu)			
	TP5759:TRIG (TP759 on RF Board)	本		
ADJUSTMENT	S1 and T1 Post Height	V1 V2		
MODE	PLAY	* \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
TAPE	Blank Tape			
M.EQ	Oscilloscope			
TOOL	VFK1149(Post Driver)			



- 1. Record the color bar signal.
- 2. Open the MODE SELECT menu on Service menu and set the item "B05 PB HEAD" to "RP"(counter displayed 00001).
- 3. Play back the recorded portion and confirm that the envelope output is within specification
- 4. If out of specification, perform the Envelope Waveform and LISTA adjustment again.

6. MAJOR MECHANISM PARTS REPLACEMENT AND ADJUSTMENT PROCEDURE

GENERAL

When mechanical parts are replaced, pay attention to the following notes.

- 1. Always turn power off before replacing any parts.
- If any adjustment is necessary after the parts is replaced, perform the adjustment after replacement.
- 3. Use proper hard tools of fixtures.
- Be sure to clean the parts after replacement, Also when the mechanical parts are replaced, follow the replacement procedure.

6-1. Cylinder Unit Replacement

(Removal)

- 1. Remove the Top Plate.
- 2. Remove the Bottom Plate Unit.
- 3. Remove the Front Loarding Unit.
- Disconnect the connector P2001,P2002,P2003 and P2004 on the Servo P.C.Board as shown in Figure 6-1-1.

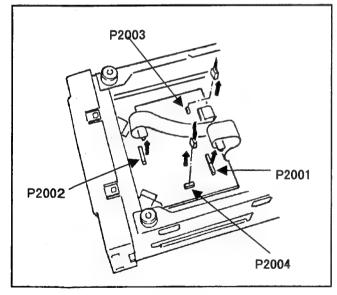


Fig. 6-1-1

 Disconnect the connector P41002 on AUDIO P.C.Board, which connected between A/C Head and AUDIO P.C.Board as shown in Figure 6-1-2. Disconnect the connector P5001 and P5201 on RF AMP P.C.Board, which are connected between the Cylinder Unit and the RF P.C.Board as shown in Figure 6-1-2.

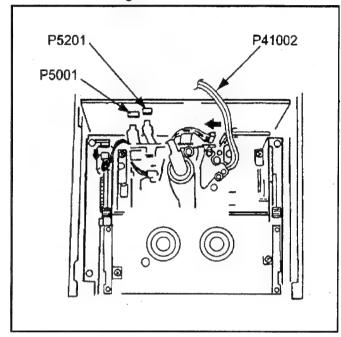


Fig. 6-1-2

Note: Be careful when remove the flexible cable from the connector for flexible cable. Please refer to how remove the connector as shown in Figure 6-1-3

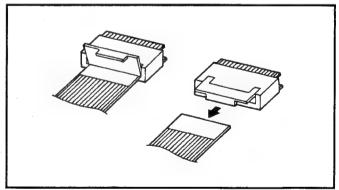


Fig. 6-1-3

 Unscrew the 4 screws on the Plate, which plate installed Mech Chassis Unit. And remove the Mech Chassis Unit with Plate from VTR as shown in Figure 6-1-4.

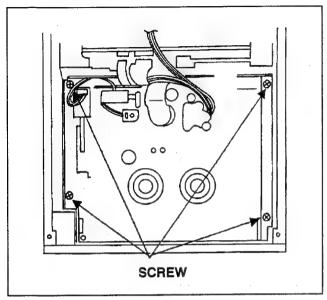


Fig. 6-1-4

- 8. Unscrew the 2 screws and remove the T1 GUIDE (Refer to item 6-8-1)
- 9. Remove the Cleaning Arm Unit (Refer to item 6-8)

10. Disconnect the connector P2033 on the Servo P.C.Board. And remove the 3 screws which have spring from the Cylinder Unit as shown as Figure 6-1-5, then remove the Cylinder Unit without touching any mechanical parts as shown in Figure 6-1-6.

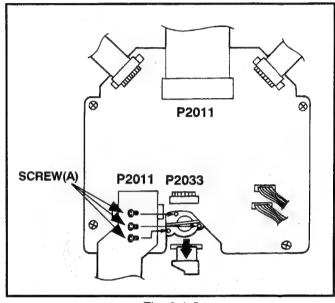


Fig. 6-1-5

NOTE: Never touch the cylinder by finger directly, when pull out the Cylinder Unit

(Installation)

- Install the new Cylinder Unit on the previous steps in reverse order.
- 2. After installation of T1 Guide, T1 Guide position adjustment should be performed as follows.

Note: When install the Cylinder Unit, the pin on Mech chassis should be match to hole of Cylinder Unit as shown in Figure 6-1-6.

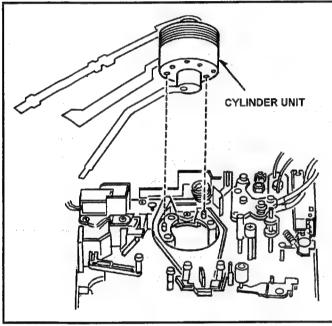


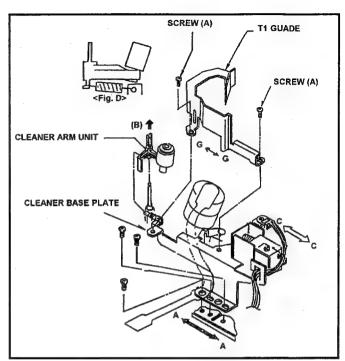
Fig. 6-1-6

[T1 Guide Position Adjustment]

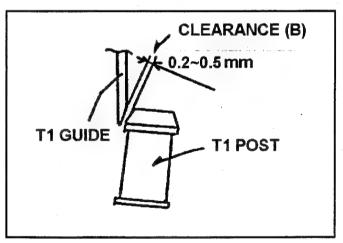
1. Place the Loading completed position.

< How to making the Loading Condition >

- Open the "Servo Adjust" menu in the "Service Menu".
- Select the item "T TORQUE" and press the BIGIN button for making the loading condition and turn power to off.
- Observe the clearance (B) between T1 Guide and T1 post as shown in Figure. And make sure that it is within 0.2 to 0.5mm.
- If not, loosen the 2 screws (A) and adjust the position of T1 Guide by moving arrow direction (G ⇔ G) so that the clearance (B) is within specification. And tighten the 2 screws (A).



Removal of Cleaner Roller Unit



Adjust of T1 Guide

6-1-1. Adjustment Flow Chart After Cylinder Unit Replacement

 After change the Cylinder Unit, please perform the following steps.

6-1-2. Adjustment Flow Chart after Cylinder Unit Replacement

Adjust following items after Cylinder Unit replacement.

Start (Mechanical Adj.: Section 3) 5-11. Tension Confirmation 5-13. Envelope Waveform Adjustment 5-14. Post Limit Confirmation (PLAY) 5-19. A/C Head Tilt Confirmation 5-20. A/C Head Height Confirmation 5-21. A/C Head Azimuth and X-value Adj. 5-22. REV Tape pass confirmation and Adj. 5-23. CTL Self-Recording Level Conf. 5-24. Play Tape Pass Limit Confirmation 5-27&28. Tape Pass Limit Conf. (REV/REW/FF) 5-29. Screw Lock tight (A/C Head, T3 and T4 Post) 5-30. PG Shifter Adjustment 5-32. LISTA Connection and Boot up 5-33. LISTA Sensitivity Adjustment (R/P Head) 5-34. LISTA Sensitivity Detection (R/P Head) 5-35. LISTA Linearity Adj. and Waving measurement 5-36, LISTA Sensitivity Adjustment (PB Head). 5-37. LISTA Sensitivity Adjustment (DV). 5-38. Self-Recording and Playback ENV Conf.

Start (Electrical Adj.: Section 4)				
EQ Adjustment				
REC CURR and FREQ. Adjustment				
V				
Pre-EQ Adjustment				
CUE Rec and Play level Conf. And Adj.				
V				
END				

NOTE: EQ, Pre-EQ, REC CURR and REC FREQ adjustment can be executed Automatically by use AUTO software.

NOTE: For the PG Shifter Adjustment, release hand from the search button after changing the PG Shifter value at right of "PG SFTR" on the monitor. If the value is not changed for a long time, tape error or ITI envelope lack may be occurred.

6-2. A/C Head Replacement

6-2-1. Replacement

* Tools required:

Nut Driver (5.5m/m) (VFK1150)

Hex Driver (VFK1148)

Hex Wrench (VFK1190)

(Removal)

- 1. Remove the Top Plate.
- Loosen the hex screw (B) and remove the Nut (C).
 Hang off the Head Height Adjustment Spring and
 then remove the A/C Head Unit as shown in Figure
 6-2-3.

Point: Memorized height of Nut (C) before remove the Nut (C),

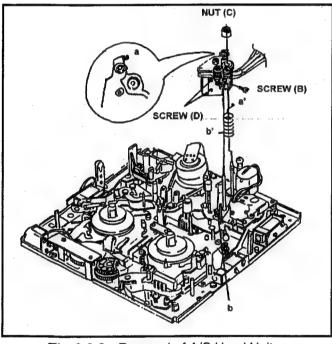


Fig. 6-2-3 Removal of A/C Head Unit

 Remove the 2 screws (A) and disconnect the connector P4502 on the AUDIO and P2030 on the Servo P.C.Board, then remove the A/C Head from the A/C Head Plate.

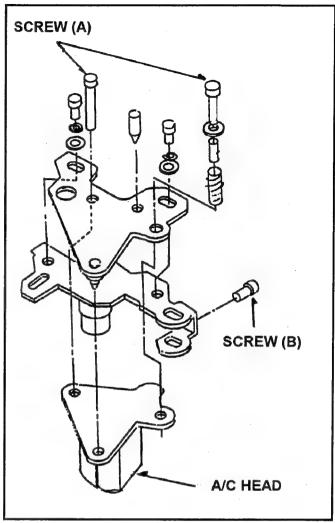


Fig. 6-2-1 Removal of A/C Head

- 4. Remove the Shield Cover by removing 2 screws (D) as shown in Figure 6-2-3.
- 5. Unsolder the lead wires (When unsolder the lead wires, do not unsolder all at the same time).

(Installation)

- Remove the Shield Case from the New A/C Head and solder the lead wires to New A/C Head (Refer to Figure 6-2-2).
- 2. Reinstall the shield case to A/C Head.
- Install the A/C Head to A/C Head Plate by tight 2 screws (A), then set to parallel the gap between A/C Head and A/C Head Plate.
- 4. Install the A/C Head Unit.
- 5. Hang on the Head Height Adjustment Spring and tighten the Nut (C).
- 6. Clean the surface of the A/C Head.

Note: After installation, Mechanical and Electrical adjustments should be performed and the hex screw (B) is kept loose until finish the A/C Head Height Adjustment.

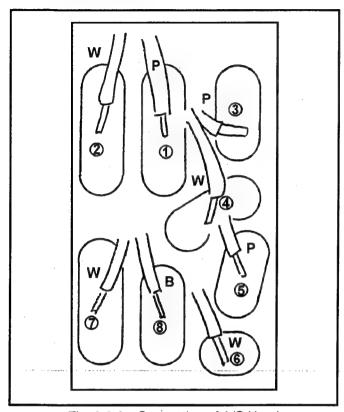
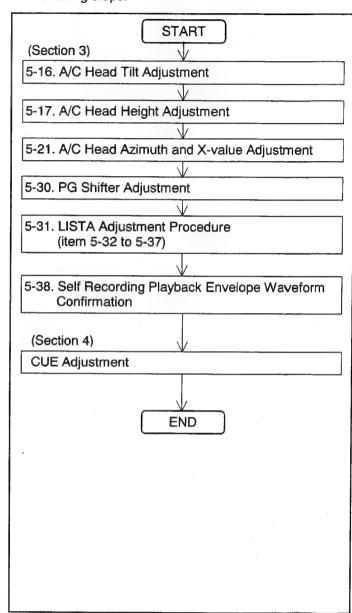


Fig. 6-2-2 Connection of A/C Head

A/C Head Side	Cable Color		Connector No.
1	PINK	YELLOW	
2	WHITE		
3	PINK	RED	. P1
4	WHITE		
5	PINK	GREEN	
6	WHITE		
7	WHITE	YELLOW	P30
8	BLACK		

6-2-2. Adjustment Flowchart After A/C Head Adjustment

1. After change the A/C Head, please perform the following steps.



6-3. Supply and Take Up Reel Rotor Unit Replacement

(Removal)

- 1. Remove the Top Plate.
- 2. Remove the Front Loading Unit.
- 3. Remove the Bottom Plate Unit.
- 4. Disconnect the connector P2034 and P2035 on the Servo P.C.Board as shown in Figure 6-3-1.
- Move the S1 post to loading direction by manual ejecting method until the screw (C) can removing position.
- Confirm the supply and Take Up Brake are not release.
- 7. Press the iron core of M stopper solenoid to release the M stopper.
- 8. Remove the 4 screws (C), (D) and (E) as shown in Figure 6-3-1.
- Remove the Supply and Take Up Reel Rotor Unit and Reel Outer Rail.

Note: Memorized the groove position of Reel Base, which inserted the pin of Drive Arm Unit.

(Installation)

- Through in the Reel Outer Rail to New Supply and Take Up Reel Rotor Unit.
- Hang on the Reel Rotor Unit to Reel Inner Rail and Install the Reel Rotor Unit then the pin of Drive Arm Unit should be matched with groove position of Reel Base as shown in Figure 6-3-3.
- 3. Install the 4 screws (C), (D) and (E).
- Confirm that the Reel Rotor Unit moving smoothly on the Rail by hand.
- Move the Reel Rotor Unit to front side by hand and then pull up the iron core of M stopper solenoid for operating M stopper.
- 6. Set the unloading condition by turn the Emergency shaft counter-clockwise.
- 7. Confirm that the Main Brake Torque. (Refer to item 5-3).
- 8. Connect the Flexible Cable to Connector P2034 and P2035 on the Servo P.C.Board.
- 9. Adjust the S Reel Torque Offset value (Refer to item 2-1 of section 4).
- Adjust the T Reel Torque Offset value (Refer to item 2-2 of section 4).
- 11. Adjust the S Reel Motor Torque Offset value (Refer to item 2-3 of section 4).
- 12. Adjust the T Reel Motor Torque Offset value (Refer to item 2-4 of section 4).
- 13. Confirm that the Tension value on playback mode (Refer to item 5-11).

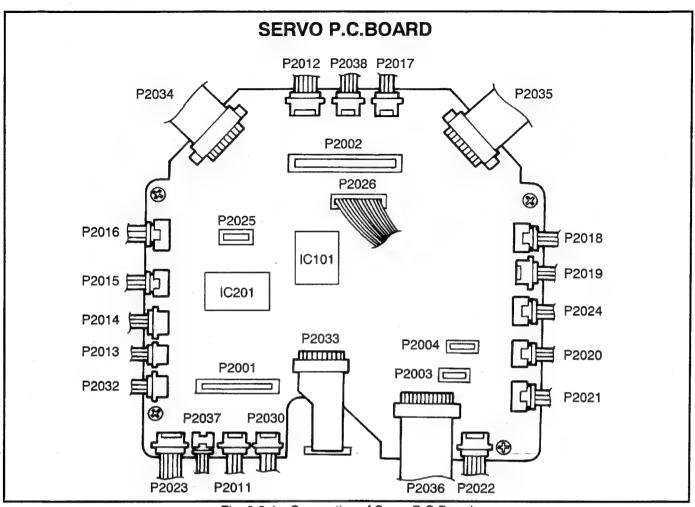


Fig. 6-3-1 Connection of Servo P.C.Board

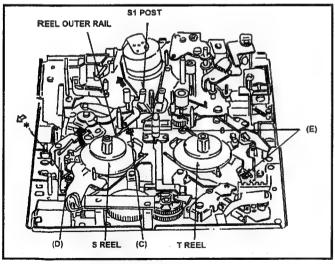


Fig. 6-3-2 Removal of S & T Reel Rotor Unit

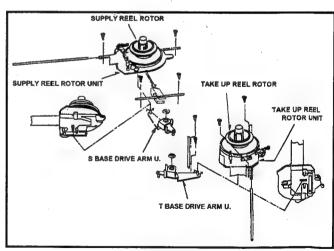


Fig. 6-3-3 Install of S & T Reel Rotor Unit

6-4. Loading Motor Unit Replacement

(Removal)

- 1. Remove the Top Plate.
- 2. Remove the Front Loading Unit.
- 3. Remove the Bottom Plate Unit.
- Disconnect the connector P2021 on Servo P.C.Board as shown in Figure 6-3-1.
- 5. Remove the Pinch Solenoid Unit (Refer to item 6-9).
- 6. Remove the Pinch Solenoid Lever. (Refer to item 6-5)
- 7. Unscrew the screw (B), and remove the Emergency Shaft as shown in Figure 6-4-1.
- Unscrew the 2 screws (C) and remove the Loading Motor Neutral Unit as shown in Figure 6-4-1
- 9. Unscrew the 2 screws (D) and remove the Loading Motor Unit as shown in Figure 6-4-1.

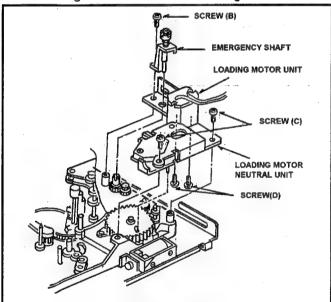


Fig. 6-4-1 Removal o Loading Motor Unit

(Installation)

- Install the new Loading Motor Unit to Loading Motor Neutral Unit by tightening 2 screws (D).
- Install the Loading Motor Neutral Unit by tightening the 2 screws (C), then be careful that the pin of Mode SW Unit should be matched to groove position of main Cam Gear.
- Install the Emergency Shaft by tightening the screw (B).
- Install the Pinch Solenoid Unit and after installation it, Pinch Solenoid Position adjustment is required. (Refer to item 5-3).

6-5. Pinch Arm Unit Replacement

(Removal)

- 1. Remove the Top Plate.
- 2. Remove the Front Loading Unit.
- 3. Remove the Bottom Plate Unit.
- Disconnect the connector P2020 on the Servo P.C.Board as shown in Figure 6-3-1.
- Remove the Pinch Solenoid Unit (Refer to item 6-9, then hang off the Pinch Solenoid Lever as shown in Figure 6-5-1.
- 6. Remove the cut washer (A) and remove the Pinch Solenoid Lever as shown in Figure 6-5-1.
- 7. Remove the cut washer (B) and remove the Pinch Arm Unit as shown in Figure 6-5-1.

(Installation)

 Install the new Pinch Arm Unit follow the removal steps in reverse order then Pinch Solenoid Position Adjustment is necessary (Refer to item 5-2).

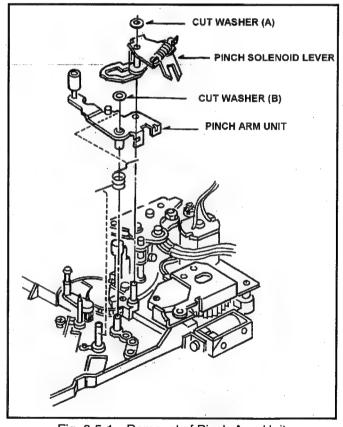


Fig. 6-5-1 Removal of Pinch Arm Unit

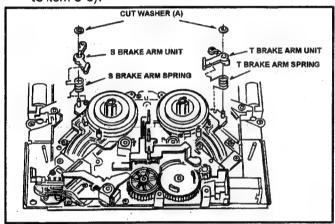
6-6. Supply and Take Up Brake Arm Unit Replacement

(Removal)

- 1. Remove the Top Plate.
- 2. Remove the Front Loading Unit.
- Press the iron core of Brake Solenoid for release the Brake
- Remove the cut washers (A) and remove the supply and Take Up Brake Arm Unit as shown in Figure 6-6-1.

(Installation)

- 1. When install the new Brake Arm Unit first, hang on the Brake Arm Spring as shown in Figure 6-6-1.
- 2. Follow the previous steps in reverse order.
- 3. Main Brake Torque confirmation is required (Refer to item 5-3).



 Confirm that the Tension value on the Playback mode (Refer to item 5-11).

Fig. 6-6-1 Removal of S & T Brake Arm Unit

6-7. Mode Select Switch Unit Replacement

(Removal)

- 1. Remove the Top Plate.
- 2. Remove the Front Loading Unit.
- 3. Remove the Bottom Plate Unit...
- 4. Disconnect the connector P2022 on the Servo P.C.Board as shown as Figure 6-3-1.
- Remove the Pinch Solenoid Unit and Loading Motor Neutral Unit (Refer to item 6-4).
- Remove the screw (D) and remove the Mode Select Switch Unit from Loading Motor Neutral Unit as shown in Figure 6-7-1.

(Installation)

 Install the New Mode Select Switch Unit follow the removal steps in reverse order (Please refer to item [6-4. Loading Motor Unit Replacement]).

Note: Be careful the pin of Mode Switch Unit should be matched to groove of Main Cam Gear.

 After install the Pinch Solenoid Unit, Pinch Solenoid Position adjustment is required (Refer to item 5-2).

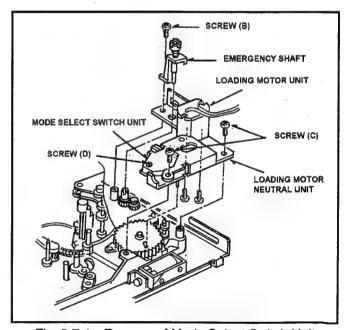


Fig. 6-7-1 Remove of Mode Select Switch Unit

6-8. Cleaning Arm Unit Replacement

(Removal)

- 1. Remove the Top Plate.
- Unscrew the 2 screws (A) and remove the T1 Guide.
- 3. Hang off the tip portion (B) of cleaning Arm Unit and hang off the spring from Cleaner Arm Unit, then remove the Cleaning Arm Unit as shown in Figure 6-8-1.

(Installation)

- Install the Cleaning Arm Unit, then hang on the spring to Cleaning Arm Unit.
- 2. Install the T1 Guide by tightening 2 screws (A).
- Press the iron core of the Cleaner Solenoid and confirm that the Cleaner Roller is rotated, when the cylinder is rotated by hand.
- T1 Guide position adjustment should be performed as follows.



Place the Loading completed position.

< How to making the Loading Condition >

- Open the "Servo Adjust" menu in the "Service Menu"
- Select the item "T TORQUE" and press the BIGIN button for making the loading condition and turn power to off.
- Observe the clearance (B) between T1 Guide and T1 post as shown in Figure 6-8-2. And make sure that it is within 0.2 to 0.5mm.
- If not, loosen the 2 screws (A) and adjust the position of T1 Guide by moving arrow direction (G ⇔ G) so that the clearance (B) is within specification. And tighten the 2 screws (A).

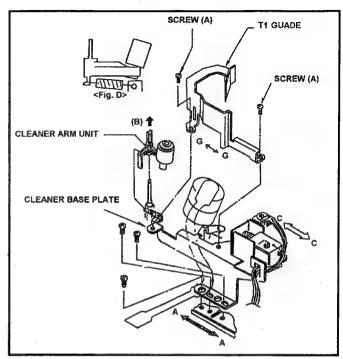


Fig. 6-8-1 Removal of Cleaner Roller Unit

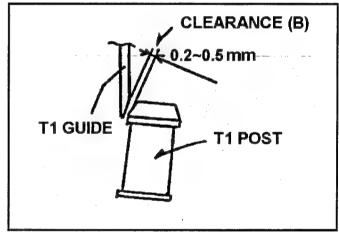


Fig. 6-8-2 Adjust of T1 Guide

6-9. Pinch Solenoid Replacement

(Removal)

- 1. Remove the Top Plate.
- 2. Remove the Front Loading Unit.
- 3. Remove the Bottom Plate Unit.
- 4. Disconnect the connector P2020 on the Servo P.C.Board as shown in Figure 6-3-1.
- 5. Unscrew the 2 screws (A) and remove the Pinch Solenoid Unit as shown in Figure 6-9-1.
- 6. Unscrew the 2 screws (B) and remove the Pinch Solenoid Angle as shown in Figure 6-9-1.
- Unscrew the 2 screws (C) and remove the Pinch Solenoid from the Pinch Solenoid Base.

(Installation)

- Install the new Pinch Solenoid follow the removal steps in reverse order.
- 2. After installation, Pinch Solenoid Position Adjustment is required (Refer to item 5-2).

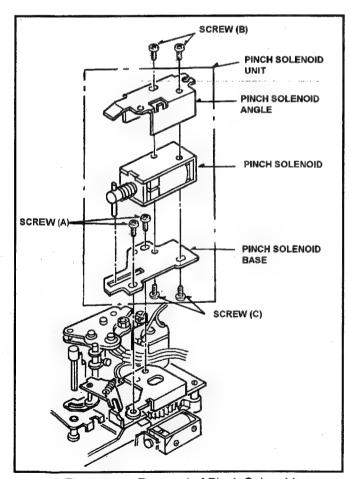


Fig. 6-9-1. Removal of Pinch Solenoid

6-10. Supply Brake Solenoid Replacement and Adjustment

(Removal)

- 1. Remove the Top Plate.
- 2. Remove the Front Loading Unit.
- 3. Remove the Bottom Plate Unit.
- Disconnect the connector P2015 on the Servo P.C.Board.
- Unscrew the 2 screws (A) and remove the Supply Brake Solenoid Base Unit as shown in Figure 6-10-1.
- 6. Unscrew the 2 screws (B) and remove the supply Brake Solenoid from Supply Brake Solenoid Base Unit as shown in Figure 6-10-1.

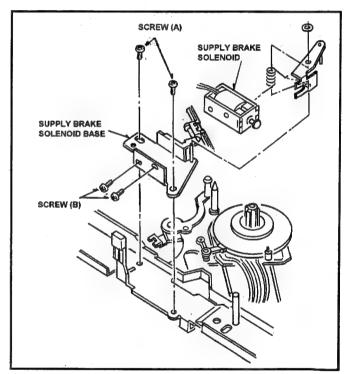


Fig. 6-10-1 Removal of Supply Brake Solenoid

(Installation)

 Install the new supply Brake Solenoid follow the removal steps in reverse order.

(Adjustment)

- 1. Place the reels in the M cassette size position.
- Observe the clearance (A) between Brake pad and it's turntable as shown in Figure 6-10-2. And make sure that it is within 0.2 to 0.5mm.
- 3. If not, loosen the 2 screws (A), which fixed supply and Take Up Brake Solenoid Unit. And adjust the position of Brake Solenoid Unit by moving arrow direction so that the clearance (A) is within specification. And tighten the 2 screws (A).
- After adjustment, change the reel position to S and L cassette size, and confirm that the clearance (A) is within specification.

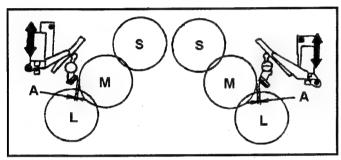


Fig. 6-10-2 Brake Solenoid Adjustment

6-11. Take Up Brake Solenoid Replacement and Adjustment

(Removal)

- 1. Remove the Top Plate.
- 2. Remove the Front Loading Unit.
- 3. Remove the Bottom Plate Unit.
- 4. Disconnect the connector P2018 on the Servo P.C.Board.
- Unscrew the 2 screws (A) and remove the Take Up Brake Solenoid Base Unit as shown in Figure 6-11-1.
- Unscrew the 2 screws (B) and remove the Take Up Brake Solenoid from Take Up Brake Solenoid Base Unit as shown in Figure 6-11-1.

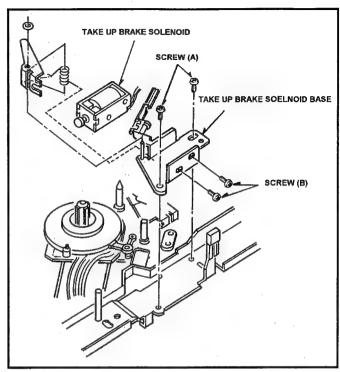


Fig. 6-11-1 Removal of Take Up Brake Solenoid

(Installation)

1. Install the new Take up Brake Solenoid follow the removal steps in reverse order.

Note: Hang on the Take up Brake Spring as shown in Figure 6-11-1.

2. After installation, position adjustment should be performed as follows.

(Adjustment)

 Please adjust the position of Take up Brake Solenoid Unit follow the adjustment procedure, which is described item 6-10.

6-12. Distinction SW Unit Replacement

(Removal)

- 1. Remove the Top Plate.
- 2. Remove the Front Loading Unit.
- 3. Remove the Bottom Plate Unit.
- Disconnect the connector P2017 on Servo P.C.Board.
- 5. Remove the MIC Drive Rev Spring at Distinction Switch Unit side as shown in Figure 6-12-1.
- 6. Unscrew the 3 screws (A) and remove the MIC Rail Unit as shown in Figure 6-12-1.

(Installation)

- 1. Install the new Distinction Switch Unit follow the removal steps in reverse order.
- Confirm that the M and L cassettes touch to Distinction Switch Unit correctly.

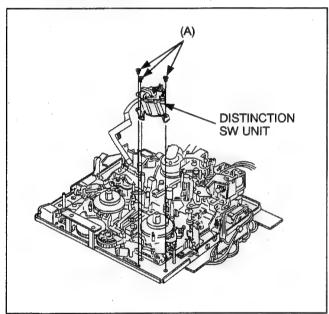


Fig. 6-12-1 Removal of Distinction Switch Unit

6-13. S1 Post Loading Arm Unit Replacement and Adjustment

(Removal)

- 1. Remove the Top Plate.
- 2. Remove the Front Loading Unit.
- Remove the S5 Post Base Unit (Refer to item 6-17).
- 4. Remove the Tension Arm Unit (Refer to item 6-18).
- 5. Unscrew the screw (A) and remove the S1 Post from Loading Rail as shown in Figure 6-13-1.
- 6. Remove the Cut Washer (B) and remove the S1 Loading Arm Unit as shown in Figure 6-13-1.

(Installation)

- Install the new S1 Loading Arm Unit follow the removal steps in reverse order, then S1 Post Loading Arm Unit Phase Adjustment should be performed as follows.
- 2. After installation, confirm that the S1 Post moving smoothly on the Loading Rail.
- Tension Arm (Refer to item 5-5) and Linearity Adjustment. (Refer to item 5-13) should be performed.

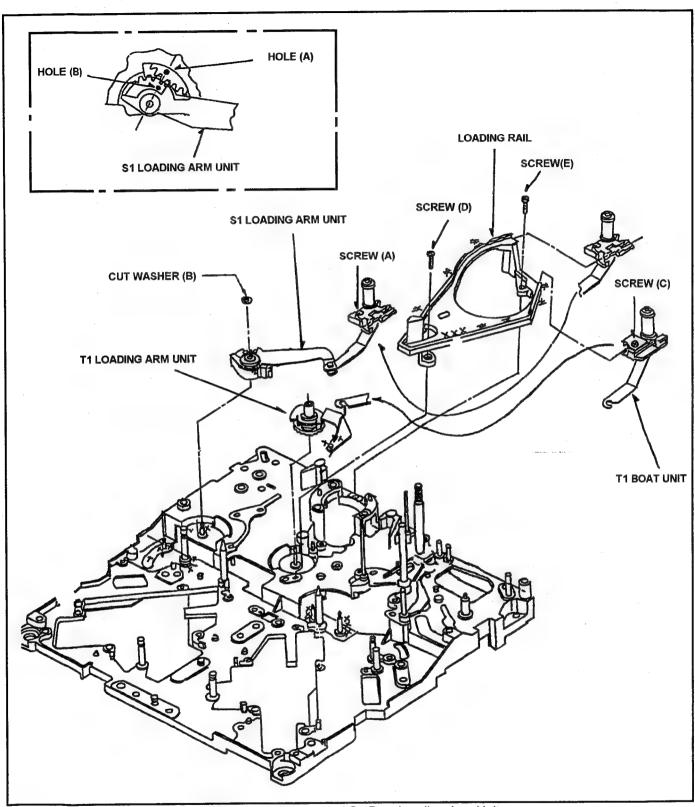


Fig. 6-13-1 Removal of S1 Post Loading Arm Unit

(Adjustment)

 When install the S1 Post Loading Arm Unit, then the hole (A) should be matched hole (B) as shown in Figure 6-13-1.

6-14. T1 Boat Unit Replacement

(Removal)

- 1. Remove the Top Plate.
- 2. Remove the Front Loading Unit.
- 3. Unscrew the screw (C) and remove the T1 Post from Loading Rail as shown in Figure 6-13-1.
- 4. Hang off the T1 Boat Unit from T1 Loading Arm Unit as shown in Figure 6-13-1.

(Installation)

- 1. Install the new T1 Boat Unit follow the removal steps in reverse order.
- 2. After installation confirm that the T1 Post moving smoothly on the Loading Rail.
- Linearity adjustment (Refer to item 5-13) should be performed.

6-14-1. T1 Loading Arm Unit Replacement and Adjustment

(Removal)

- 1. Remove the Top Plate.
- 2. Remove the Front Loading Unit.
- 3. Remove the cylinder Unit (Refer to item 6-1).
- Move the T1 Post to loading direction by manual ejecting method until the screw (D) can be removal position as shown in Figure 6-13-1.
- 5. Unscrew the 2 screws (A) and (C), then remove the S1 and T1 Post from Loading Rail as shown in Figure 6-13-1.
- 6. Unscrew the 2 screws (D) and (E), then remove the Loading Rail as shown in Figure 6-13-1.
- 7. Remove the T1 Loading Arm Unit as shown in Figure 6-13-1.

(Installation)

- Install the T1 Loading Arm Unit follow the removal steps in reverse order, then Phase Adjustment should be performed as follows.
- Note: This replacement should be performed simultaneously, replacement of Cylinder Unit. It is convenience for Replacement of T1 Loading Arm Unit.

(Adjustment)

- When install the T1 Loading Arm Unit, then the hole (A) should be matched hole (B) as shown in Figure 6-14-1.
- After installation confirm that the S1 and T1 Post moving smoothly on the Loading Rail.
- Post Height Pre-adjustment (Refer to item 5-4) and Linearity adjustment (Refer to item 5-13 [Tape Pass Adjustment Procedure]) should be performed.

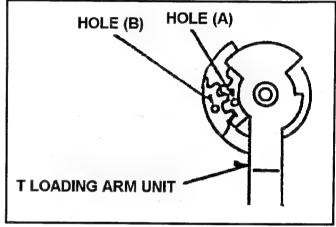


Fig. 6-14-1 Phase Adjustment of T1 Loading Arm Unit

6-15. Cleaner Solenoid Replacement and Adjustment

(Removal)

- 1. Remove the Top Plate.
- 2. Remove the Front Loading Unit.
- 3. Remove the Bottom Plate Unit.
- Disconnect the connector P2037 on the Servo P.C.Board.
- 5. Unscrew the 2 screws (A) and remove the Cleaner Solenoid Unit as shown in Figure 6-15-1.
- Unscrew the 2 screws (B) and remove the Cleaner Solenoid as shown in Figure 6-15-1.

(Installation)

- Install the new Cleaner Solenoid follow the removal steps in reverse order.
- 2. After installation, Cleaner Solenoid Position adjustment should be performed as follows.

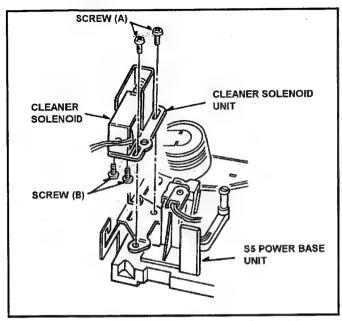


Fig. 6-15-1 Removal of Cleaner Solenoid



X Tools Required : Eccentric Driver (VFK0357)

- 1. Press the iron core of Cleaner Solenoid.
- Observe the clearance (D) between Cleaning Arm Unit and Cleaner Base Plate as shown in Figure 6-15-2. And make sure that it is within 0.5 to 0.7mm.
- If not, loosen the 2 screws (A) and adjust the
 position of Cleaner Solenoid Unit by moving arrow
 direction (C⇔C) using the Eccentric drive so that
 the clearance (D) is within specification. And
 tighten the 2 screws.
- 4. After adjustment, confirm that as follow.
- Press the iron core of Cleaner Solenoid and released it, then the Cleaning Roller is return to original position.
- Press the iron core of the Cleaner Solenoid and confirm that the Cleaner Roller is rotated, when the Cylinder is rotated by hand.

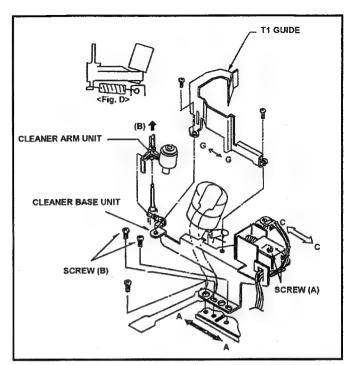


Fig. 6-15-4 Cleaner Solenoid Position Adjustment

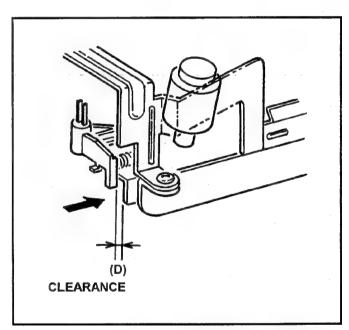


Fig. 6-15-2 Cleaner Solenoid Position Adjustment

Note: If remove the cleaner Base Plate, Cleaner roller Position adjustment should be performed.

6-15-2. Cleaner Roller Position Adjustment

- X Tools Required : Eccentric Driver (VFK0357)
- Observe the clearance (A) between Cleaner Roller and cylinder Unit as shown in Figure 6-15-3. And make sure that it is within 1.0 to 1.2mm.

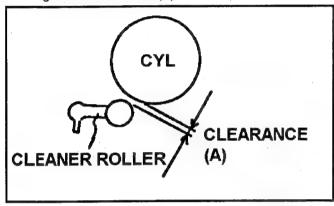


Fig. 6-15-3 Cleaner Roller Position Adjustment

6-16. Reel Drive Motor Unit Replacement

(Removal)

- 1. Remove the Top Plate.
- 2. Remove the Front Loading Unit.
- 3. Remove the Bottom Plate Unit.
- 4. Disconnect the connector P2016 on the Servo P.C.Board.
- Unscrew the 2 screws (A) and remove the Reel Drive Sensor P.C.Board as shown in Figure 6-16-1.
- 6. Unscrew the 2 screws (B) and remove the Reel Drive Motor Unit as shown in Figure 6-16-1.

(Installation)

 Install the new Reel Drive Motor Unit follow the removal step in reverse order.

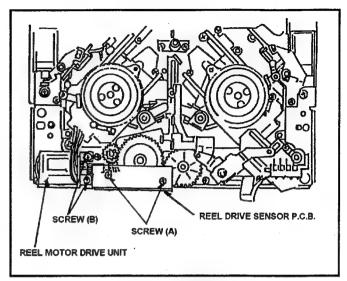


Fig. 6-16-1 Removal of Reel Drive Motor Unit

6-17. S5 Post Base Unit Replacement

(Removal)

- 1. Remove the Top Plate.
- 2. Remove the Front Loading Unit.
- 3. Unscrew the screw (A) and remove the S5 Post Base Unit as shown in Figure 6-17-1.

(Installation)

- Install the S5 post Base Unit follow the removal steps in reverse order, then be careful the S5 Post Base Unit is install to mech chassis as shown in Figure 6-17-1.
- After installation, Post Height pre-adjustment (Refer to item 5-4) and Linearity adjustment (Refer to item 5-12 [Tape Pass Adjustment Procedure]) should be performed.

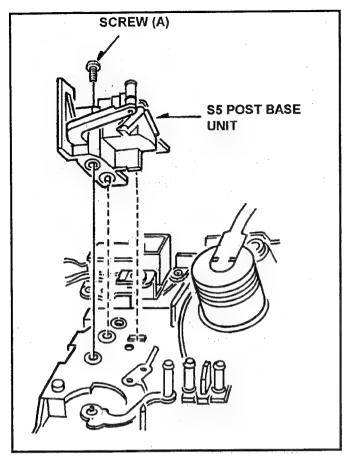


Fig. 6-17-1 Removal of S5 Post Base Unit

6-18. Tension Arm Unit Replacement

(Removal)

- 1. Remove the Top Plate.
- 2. Remove the Front Loading Unit.
- 3. Remove the Cut Washer (A) and hang off the Tension Regi Spring, then remove the Tension Arm Unit as shown in Figure 6-18-1.

(Installation)

- 1. Install the new Tension Arm Unit follow the removal steps in reveres order.
- 2. After installation, Tension Arm Adjustment should be performed the following steps.

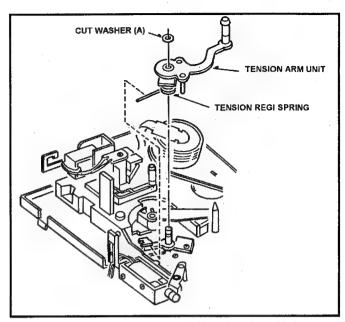
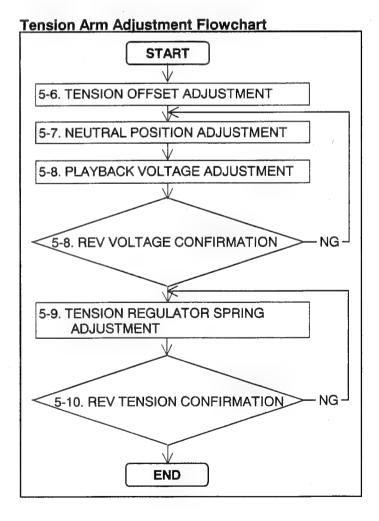


Fig. 6-18-1 Removal of Tension Arm Unit



6-19. Main Cam Gear Replacement

(Removal)

- 1. Remove the Top Plate.
- 2. Remove the Front Loading Unit.
- Remove the Pinch Solenoid Unit (Refer to item 6-5) and Loading Motor Neutral Unit (Refer to item 6-4).
- Remove the Main Cam Gear as shown in Figure 6-19-1.

(Installation)

- Install the Main Cam Gear, then the pin of Main Cam Arm Unit (※) should be matched with the groove position of Main Cam Gear as shown in Figure 6-19-1.
- 2. Follow the removal steps in reverse order.
- After installation, Pinch Solenoid Position Adjustment is required (Refer to item 5-2).

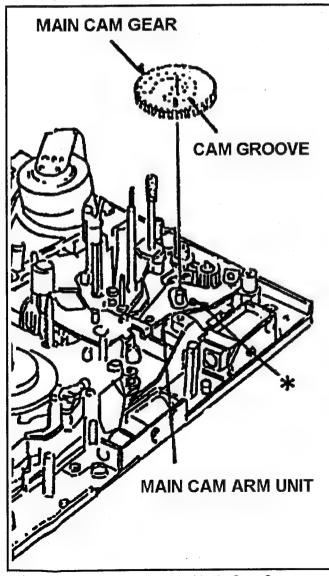


Fig. 6-19-1 Removal of Main Cam Gear

6-20. M-Stopper Solenoid Replacement And Adjustment

(Removal)

- 1. Remove the Top Plate.
- 2. Remove the Front Loading Unit.
- 3. Remove the Bottom Plate Unit.
- Remove the connector P2024 on the Servo P.C.Board.
- Unscrew the 4 screws (A) and (B) and remove the M-Stopper Solenoid as shown in Figure 6-20-1.

(Installation)

- Install the new M-Stopper Solenoid follow the removal steps in reverse order.
- After installation, position adjustment should be performed as follows.

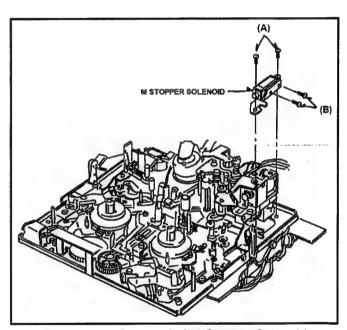


Fig. 6-20-1 Removal of M-Stopper Solenoid

(Adjustment)

- 1. Place the reels in the L size position.
- Push the iron core of M-Stopper Solenoid by hand.
- Observe the clearance (A) between Mech Chassis and M-Stopper as shown in Figure 6-20-2. And make sure that it is within 1.1 to 1.3mm.
- 4. If not, loosen the 2 screws (A), which fixed M-Stopper Solenoid. And adjust the position of M-Stopper Solenoid so that the clearance (A) is within specification. And tighten the 2 screws (A).

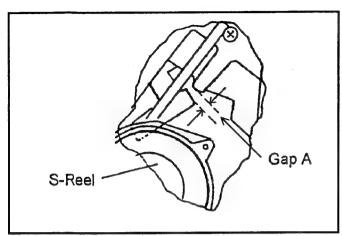


Fig. 6-20-2 M-Stopper Solenoid Adjustment

6-21. L-M Release Angle Unit Replacement

(Removal)

- 1. Remove the Top Plate.
- 2. Remove the Front Loading Unit.
- 3. Unscrew the 2 screws (A) and remove the L-M Release Angle Unit as shown in Figure 6-21-1.

(Installation)

 Install the new L-M Release Angle Unit follow the removal steps reverse order.

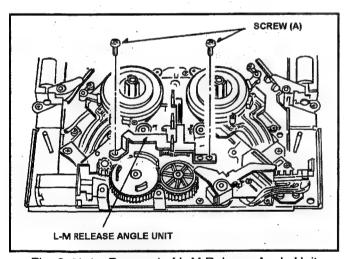


Fig. 6-21-1 Removal of L-M Release Angle Unit

6-22. Slide Rod Unit Replacement and Adjustment

(Removal)

- 1. Remove the Top Plate Unit.
- 2. Remove the Front Loading Unit.
- 3. Remove the L-M Release Angle Unit. (Refer to item 6-21).
- 4. Remove the Reel Drive Sensor P.C.Board (Refer to item 6-16).
- Remove the Cut Washer (A) and remove the Reel Drive Cam Gear.
- Remove the Cut Washer (B) and remove the MIC Drive Arm Unit.
- Remove the Cut Washer (C) and remove the MIC Geneva Gear.
- 8. Remove the Cut Washer (D) and remove the Reel Drive Arm Unit as shown in Figure 6-22-3.
- 9. Remove the Supply and Take Up Reel Rotor Unit (Refer to item 6-3-1).
- Remove the 2 Cut Washers (E) and remove the Supply and Take Up Base Drive Arm Unit.
- 11. Remove the 2 Cut Washers (F) and remove the Slide Rod Unit.

(Installation)

- Install the new Slide Rod Unit follow the removal steps in reverse order.
- When install the Reel Drive Cam Gear and MIC Geneva Gear, then phase adjustment should be performed as follows.

(Adjustment)

- 1. Install the MIC Geneva Gear to the Chassis.
- 2. Place the Reels in the M-Size position by hand.
- 3. Install the MIC Drive Arm Unit.
- Place the REC Inhibit SW in front position on Distinction SW Unit by rotation of MIC Geneva Gear, and then MIC Geneva Gear should be positioned as shown in Figure 6-22-2.

Note: Protrusion of MIC DRIVE Arm Unit is positioned as shown in Figure 6-22-2.

- Install the Reel Drive Cam Gear and hole of Reel Drive Cam Gear should be matched with the hole of MIC Geneva Gear as shown in Figure 6-22-2.
- 6. Install the Cut Washer (A), (B) and (C) as shown in Figure 6-22-2.

※Point of Adjustment

- 1) Reel in M-Seze position.
- Set the REC Inhibit SW in front position of Distinction SW Unit.
- 3) Portrusion of MIC Drive Arm Unit is positioned as shown in Figure 6-22-2.
- 4) Holes between Reel Drive Cam Gear and MIC Geneva Gear are matched.

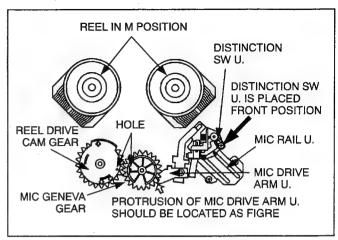


Fig. 6-22-2 Gear Phase Adjustment

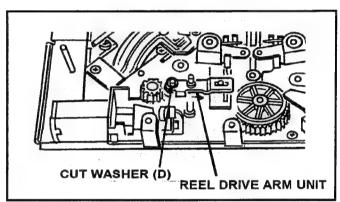


Fig. 6-22-3 Removal of Reel Drive Arm Unit

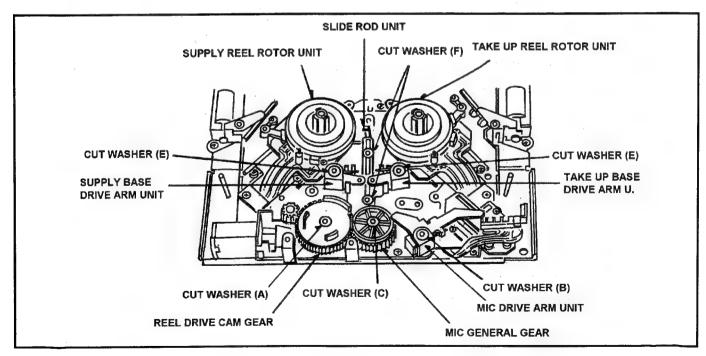


Fig. 6-22-1 Removal of Slide Red Unit

6-23. T4 Post Phase Adjustment

- Confirm that the hole (B) of T4 connection Gear was matched to hole of T4 post as shown in figure 6-23-1.
- Confirm that the portion (C) of T4 connection Gear and hole (A), which are located as shown in figure 6-23-1.

Note: This confirmation should be performed on unloading condition.

3. If not, adjust the phase of T4 post follow the above procedure.

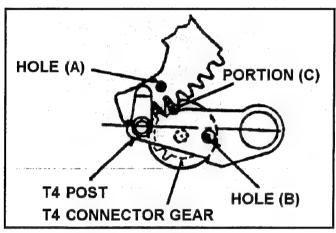


Fig. 6-23-1 Phase of T4 Post

6-24. Thrust Adjustment Screw Replacement and Adjustment

- 1. Remove the Thrust Adjustment Screw.
- 2. Enforce cleaning of point department of capstan shaft with an applicator.
- Put the oil(VFK0906) on a new Thrust Adjustment Screw and install the upper end of the Capstan Housing.
- Turn the Thrust Adjustment Screw slowly to counter-clockwise until the Capstan Rotor just starts turning (separate from the Capstan Rotor).
- Turn the Trust Adjustment Screw an another angle of 270° from 180° (about 225°) clockwise as shown in Fig. 6-24-2.
- 6. Put the glue (Ex:: Three Bond 1401B) on the Thrust Adjust Screw.
- 7. Confirm whether the Oil Seal does not come in contact with the Capstan Housing.

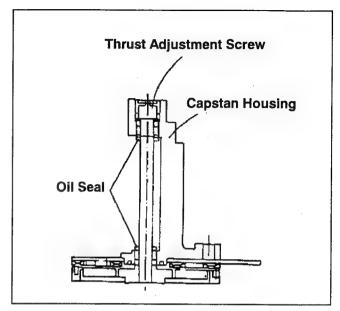


Fig.6-24-1 Removal of Trust Adjustment Screw

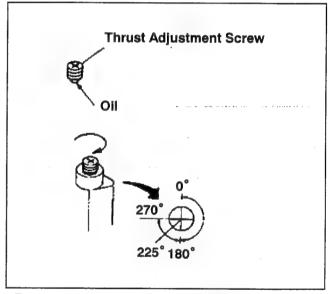


Fig.6-24-2 Adjustment of Thrust Adjustment Screw

SECTION 4

ELECTRICAL ADJUSTMENTS

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1. POWER SECTION

1-1. DC Voltage Adjustment (DC5.6V)

Board	POWER 2
Spec.	5.75V ± 0.02V
Test	TP1001
Adjust	VR1001
Mode	
M. Eq	Digital Volt Meter

Connect the digital voltmeter between the TP1001 and GND, and adjust the VR1001 so that the DV voltage is within the specification.

2. SERVO & AV SYSCON SECTION

2-1. Supply Reel Torque Offset Adjustment

Board	SERVO
Spec.	0 ± 5mV
Test	TP2403、TP2404 (GND)
Adjust	A02 : S OFFSET (SERVO ADJUST)
Input signal	
Mode	EJECT
Таре	C-10 (0 to 17 to 1
M. Eq	Digital Volt Meter.

- Open the "A00: SERVO ADJUST" menu on Service menu and select the item "A02: S OFFSET".
- 2. Press the "DATA+" or "DATA-" button so that the DC voltage is within the specifification.

2-2. Take Up Reel Torque Offset Adjustment

Board	SERVO
Spec.	0 ± 5mV
Test	TP2453、TP2404 (GND)
Adjust	A01:T OFFSET (SERVO ADJUST)
Input signal	
Mode	EJECT
Таре	
M. Eq	Digital Volt Meter

- Open the "A00: SERVO ADJUST" menu on Service menu and select the item "A01: T OFFSET".
- 2. Press the "DATA+" or "DATA-" button so that the DC voltage is within the specifification.

2-3. Supply Reel Motor Torque Offset Adjustment

Board	SERVO
Spec.	15 ± 2g
	(five times on average)
Test	
Adjust	A04: S TORQUE (SERVO ADJUST)
Input signal	
Mode	STOP
Таре	
M. Eq	Dial Torque Gauge

- 1. Open the "A00: SERVO ADJUST" menu on Service menu and select the item "A04: S TORQUE".
- 2. Set the Dial Torque Gauge on the supply side reel table.
- 3. Push the "BEGIN" to enter the loading status.
- 4. Measure the torque five times, and find the average value. Press the "DATA+" or "DATA-" in the status so that the torque is within the specification.

2-4. Take Up Reel Motor Torque Offset Adjustment

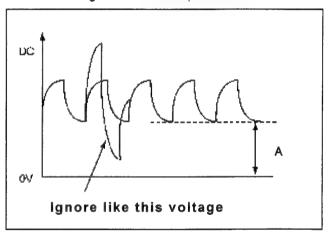
Board	SERVO
Spec.	15 ± 2g
	(five times on average)
Test	
Adjust	A03 : T TORQUE
Input signal	
Mode	STOP
Таре	
M. Eq	Dial Torque Gauge

- Open the "A00: SERVO ADJUST" menu on Service menu and select the item "A03: T TORQUE".
- 2. Set the Dial Torque Gauge on the Take up side reel table.
- 3. Press the "BEGIN" to enter the loading status.
- 4. Measure the torque five times, and find the average value. Press the "DATA+" or "DATA-" in the status so that the torque is within the specification.

2-5. Photo Sensor Voltage Adjustment

Board	AV SYSCON
Spec.	$A = 2.2 \pm 0.6 \text{ VDC}$
Test	TP60002 (S PHOTO)
	TP60001 (T PHOTO)
Adjust	VR60002 (S-PHOTO)
	VR60001 (T-PHOTO)
Input signal	
Mode	STOP
Таре	VFK1423(Tape Big./End Det.Casstte)
M. Eq	Oscilloscope

- 1. Insert the Alignment tape (VFK1423) and measure the voltage at Test Point.
- 2. Adjust VR60001 and VR60002 so that the A portion of DC voltage is within the specification.

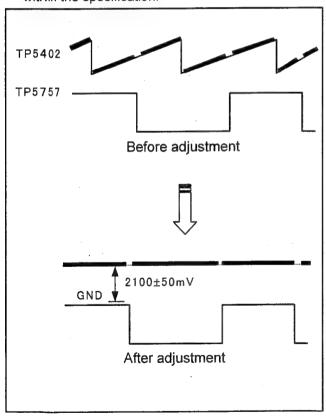


3. RF SECTION

3-1. Clock Refresh PLL Adjustment

Board	RF
Spec.	2100mV ± 50mV
Test	TP5402(E2) CH1,
	TP5757(A1) CH2
Adjust	VR5402(E2)
Input signal	
Mode	PLAY
Таре	VFK3580KM (Color bar portion)
M. Eq	Oscilloscope

- 1. Connect the TP5402 to the CH1 and the TP5757 to the CH2 of the oscilloscope, respectively.
- 2. Adjust the VR5040 so that the value at TP5402 is within the specification.



3-2. AUTO EQ Adjustment Procedures

< Preparation >

Test	RS232C Port
M. Eq	PC(w/o AD Board),
	RS232C cable (straight type)
	VFK1472A (RF Adj. Software)
Tape	VFM3583KM(Auto EQ Alignment Tape)
	VFM3010EDS(DV color bar Alignment tape)
Spec.	DVCPRO PB Head: under than -4.2
	DVCPRO RP Head: under than -3.2
	DV Playback : under than -3.0

- Install RF Auto Adjustment Software (VFK1472A) to your PC/AT Compatible, MS-DOS later than 6.3 and Installed Windows3.1 or Windows95).
 - * Make a new holder (example: c.md aeq) and copy all file from disk (VFK1472A).
- Connect RS232C port of the VTR and Serial port of PC with 25pin - 9pin Straight Cable.
- 3. Confirm set-up menu setting as below. (default setting)

104: TAPE IN MODE → STOP

105: TAPE END MODE → STOP

106: AUTO BACK → ON

107: FORMAT SEL → DVCPRO

108: REC INHIBIT → OFF

200: BOUAD RATE → 9600

201: DATA LENGTH → 8BIT

202: STOP BIT → 1BIT

203: PARITY → NONE

204: ACK RETURN → ON

111: MEMORY MODE → OFF

4. Set "Local/Menu/Remote" switch on the Front panel to "REMOTE" mode.

< Operation - How to use >

- Use Windows95
- Select "Start" "Program" "MS-DOS Prompt" and open the DOS window.
- 2. Type "autoeq" on command line and press <Enter>.
- PC displayed "Is serial No. xxxxxxx ok? ->"
 message, confirm serial number display is the
 same as VTR serial No.. If yes:press <Enter>, If
 no:type correct Serial No. and press <Enter>.

- At next, PC displayed "Insert AUTO EQ Alignment Tape" message, insert VFM3583KM Alignment Tape into the VTR.
- Then automatically start adjustment EQ adjustment and REC current adjustment. And wait until adjustment completed.
- After finish DVCPRO EQ and REC adjustment, automatically dispalyed error rate for each Head.
 And please confirm error rate in the specification.
- 7. Repeat operation of item 2 and 3 as above.
- At next, PC displayed "Insert AUTO EQ Alignment Tape" message, insert VFM3010EDS DV Alignment Tape into the VTR.
- Then automatically start adjustment DV adjustment.And wait until adjustment completed.
- 10.After finish DV adjustment, automatically dispalyed error rate for each Head. And please confirm error rate in the specification.

Note: adjustment will take approx. 20min. (EQ Adj. ⇒ REC Adj. → DV Adj.)

Use MS-DOS

- 1. Type "autoeg" on command line and press <Enter>.
- 2. After steps are the same as Windows95 mode.

< Error Rate Display >

When completed adjustment, automatically dis-played error rate for each Head as shown below.

***** Example *****
(For DVCPRO)

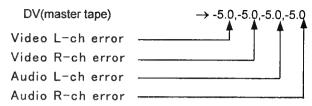
DVCPRO PB-Head(master tape) \rightarrow -5.0,-5.0,-5.0,-5.0 DVCPRO RP-Head(master tape) \rightarrow -5.0,-5.0,-5.0,-5.0 DVCPRO PB-Head(normal tape) \rightarrow -5.0,-5.0,-5.0,-5.0 DVCPRO RP-Head(normal tape) \rightarrow -5.0,-5.0,-5.0,-5.0

Video L-ch error
Video R-ch error
Audio L-ch error
Audio R-ch error

NOTE:

(master tape): alignment tape playback error rate (normal tape): self-recording tape playback error rate

(For DV)



< Option Command >

The adjustment program can be changed as follows;

autoeq - <option letter>

(make space between "autoeq" and "-")

example: Option list display → autoeq -h
 <Enter>

p: Playback EQ adjustment only

- r: Recording adjustment only
- z: Recording & DV EQ adjustments
- **d**: No display for error rate and adjustment value during adjustment
- 1: No output to log file for error rate and adjustment value during adjustment
- i: Adjustment start based on defalut value
- f: Perform recording frequency adjustment
- a: No execute DV interchange ability adjustment
- h: Option list & version display

< Create File >

During adjustment, the following files (text file) automatically create in directory

autoeq.log: Error rate, adjustment value and

adjustment item during adjustment

rf_err.dat: Error rate measurement value after

completed adjustment

adj.dat: All RF adjustment value after

completed adjustment

< Program Quit >

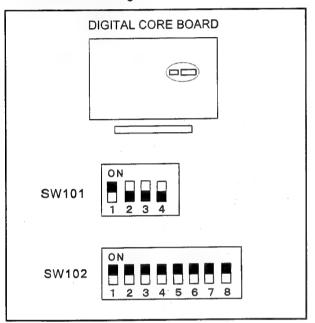
- 1-1. Emergency program quit
- 1) Press STOT button:
- 2) Press EJECT button.
- 2) Try press <Ctrl> and <C> key.
- Turn off the VTR power and will be come "Time out" message on PC display.
- For Windows95, reboot the PC by <Ctrl> + <Alt> + key.

4. DIGITAL CORE SECTION

4-1. Dip Switch Initial Setting

Set the dip switches by following the steps below.

- 1. Set the bit1 of DIP SW101 to ON and set the bit 2 to 4 of DIP SW101 to OFF position.
- 2. Set the bit 1 through 8 of DIP SW102 to ON position.



4-2. Audio VCO Center Frequency 48 KHz Adjustment

Board	DIGITAL CORE
Spec.	48.00 ± 0.01KHz
Test	TP3104(LRCLK)
Adjust	VR3101
Input signal	
Mode	EJECT
M. Eq	Frequency Counter

- Open the "B00: MODE SELECT" menu of Service menu and set the item "B09:AD VCO TEST" to "48/TST" MODE.
- 2. Adjust the VR3101 so that the frequency is within the specification.

4.3. Audio VCO Center Frequency 44.1 KHz Adjustment

Board	DIGITAL CORE
Spec.	44.1 ± 0.01KHz
Test	TP3104(LRCLK)
Adjust	VR3102
Input signal	
Mode	EJECT
M. Eq	Frequency Counter

- Open the "B00: MODE SELECT" menu of Service menu and set the item "B09:AD VCO TEST" to "44/TST" MODE.
- 2. Adjust the VR3102 so that the frequency is within the specification.

4.4. Audio VCO Center Frequency 32 KHz Adjustment

Board	DIGITAL CORE
Spec.	44.1 ± 0.01KHz
Test	TP104(LRCLK)
Adjust	VR3103
Input signal	
Mode	EJECT
M. Eq	Frequency Counter

- Open the "B00: MODE SELECT" menu of Service menu and set the item "B09:AD VCO TEST" to "32/TST" MODE.
- 2. Adjust the VR3103 so that the frequency is within the specification.

5. TBC SECTION

Note:

- 1. Warm up the VTR more than 10 minutes before start the adjustment.
- REF INPUT signal sholud be synchronized VIDEO INPUT signal.

5-1. PLL Lock DC Adjustment

Board	TBC
Spec.	0± 0.1V
Test	TP3203
Adjust	VC3201
Input signal	VIDEO IN (75% Color Bar)
Mode	EE
M. Eq	Oscilloscope

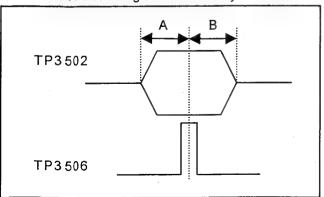
- 1. Connect the TP3203 to the oscilloscope.
- 2. Adjust the VC3201 so that the DC voltage at TP3203 is within the specification.

5.2 SG S/H Adjustment

Board	TBC
Spec.	A = B± 10%
Test	TP3502 (RSC),TP3506 (SHP)
Adjust	VR3507(S/H PULSE)
Input signal	REF VIDEO IN (75% Color Bar)
Mode	EE
M. Eq	Oscilloscope

- 1. Connect the TP3502 to the CH1 and the TP3506 to the CH2 of the oscilloscope, respectively.
- Adjust the VR3507 so that the A and B within the specification, when the centers of the TP3506 (S/H pulse signal) and TP3502 (burst signal) are syncronized as shown in below figure.

Note: The centers of the S/H pulse signal at TP3506 and TP3502 burst signal should be synchonized.



5-3. 14.3MHz VCO Adjustment

Board	TBC
Spec.	0± 100mV
Test	TP3507
Adjust	VC3501
Input signal	REF VIDEO IN (75% Color Bar)
Mode	EE
M. Eq	Oscilloscope

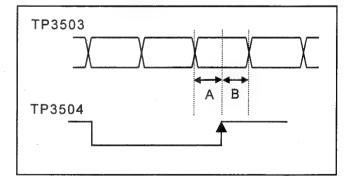
- 1. Connect the TP3507 to the oscilloscope.
- 2. Adjust the VC3501 so that the DC voltage at TP3507 is within the specification.

5-4. REF SCH Adjustment

Board	TBC
Spec.	$A = B \pm 10\%$
Test	TP3503、TP3504
Adjust	VR3501
Input signal	REF VIDEO IN (75% Color Bar)
Mode	EE
M. Eq	Oscilloscope

Note: Confirm that the SCH for both of the VIDEO Input signal and REF VIDEO signal is 0°.

- 1. Connect the TP3503 to the CH1 and the TP3504 to the CH2 of the oscilloscope, respectively.
- Adjust the VR3501 so that the leading edge of the pulse signal at TP3504 is the center of the SC signal of the TP3503, then relationship of A and B should be within the specication.

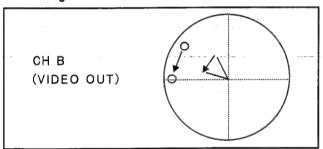


5-5. System Sub Carrier Phase Adjustment

Board	TBC
Spec.	0± 1°
Test	VIDEO OUT (CH B),
	REF IN (CH A)
Adjust	VR3508 (SYS SC PHASE)
Input signal	REF VIDEO IN (75% Color Bar)
Mode	EE
M. Eq	SCH meter

Note:

- Set the waveform/vector monitor to the SCH mode, and REF to the EXT mode, respectively.
- 2. Observe the CH A (REF VIDEO IN), and adjust the SCH display position.
- Connect the SCH meter to the REF IN and VIDEO OUT.
- Adjust the VR3508 so that the phase of SCH synchronized between EXT REF IN signal and VIDEO OUT signal.

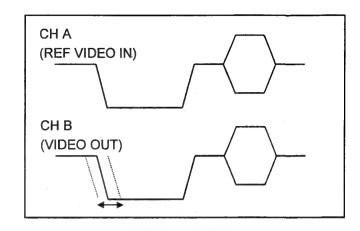


5-6. System H Phase Adjustment

Board	ТВС
Spec.	See below figure.
Test	VIDEO OUT (CH B).
·	REF IN (CH A)
Adjust	VR3504 (SYS H PHASE)
Input signal	REF VIDEO IN (75% Color Bar)
Mode	EE
M. Eq	WFM meter

 Magnify the portion of the horizontal synchronizing signal of the VIDEO OUT signal and REF VIDEO IN signal, and adjust the VR3504 so that the phase syncronized of H sync between VIDEO OUT and REF INPUT signal as shown in figure.

Note: The measured waveform varies discretely. Shift the volume area rearward once (in the delay direction), and adjust it at the area to where it returns by reversing.

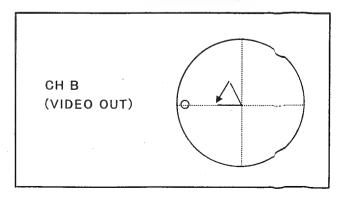


5-7. Burst Phase Adjustment

Board	ТВС
Spec.	0 ± 1°
Test	VIDEO OUT (CH B).
	REF IN (CH A)
Adjust	<system menu="" set="" up=""></system>
	03:SCH COARSE
	04:SCH FINE
Input signal	REF VIDEO IN (75% Color Bar)
Mode	EE
M. Eq	SCH meter

Note:

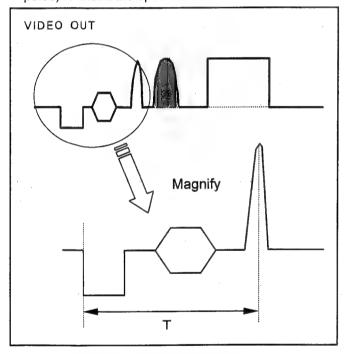
- Set the waveform/vector monitor to the SCH mode, and REF to the EXT mode, respectively.
- 2. Observe the CH A (REF VIDEO IN), and adjust the SCH display position.
- 1. Open the SYSTEM SET UP menu and select the item "03: SCH COARSE".
- Press "PAUSE (+)" or "PLAY (-)" button so that the coarse adjust the burst phase of the CH B to 0 degree.
- 3. Next, select the item "04: SCH FINE", and press "PAUSE (+)" or "PLAY (-)" button so that the burst phase of the CH B is belome 0 degree.



5-8. Video Position Adjustment

Board	TBC
Spec.	$T = 13.8 \pm 0.01 \mu s$
Test	VIDEO OUT
Adjust	F8:VIDEO PHASE(VIDEO ADJUST)
Input signal	REF IN (75%Color Bar)
Mode	PLAY
M. Eq	VFM3580KM (Pulse & Bar portion)
	Oscilloscope

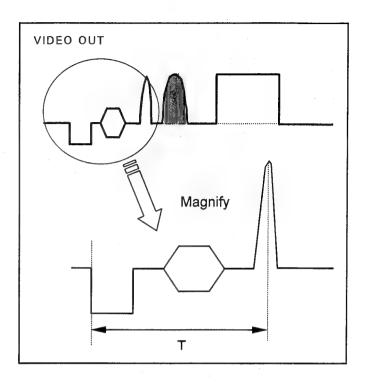
- Open the VIDEO ADJUST menu on the service menu, and select the "F85: VIDEO PHASE".
- 2. Press "PAUSE (+)" or "PLAY (-)" button so that the period T (between center of sync and center of 2T pulse) is within the specification.



5-9. Y signal Timing Adjustment (1)

Board	TBC
Spec.	$T = 13.8 \pm 0.01 \mu s$
Test	VIDEO OUT
Adjust	VR3001 (SYNC 0)
Input signal	REF IN (75% Ciolor Bar)
Mode	PLAY
Таре	VFM3580KM (Pulse & Bar portion)
M. Eq	Oscilloscope

- Open the "B00 MODE SELECT" menu on the service menu, and set the "B10 SHUFFLE EE" to the ON position.
- Adjust the VR3001 so that the period T (between center of sync and center of 2T pulse) is within the specification.

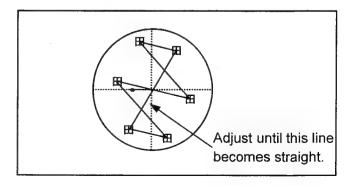


5-10. Y signal Timing Adjustment (2)

Board	TBC
Spec.	See below figure
Test	VIDEO OUT
Adjust	VR3001 (SYSC 0)
Input signal	VIDEO IN (75%Color Bar)
Mode	EE
Таре	With the last last contract
M. Eq	Vector Scope

- 1. Set the INPUT SELECT SW to the LINE.
- Open the "B00 MODE SELECT" menu on the service menu, and set the "B10 SHUFFLE EE" to the ON position.
- 3 Adjust VR3001 so that line of between Mg and G is became straight as shown in the figure below.

Note: Adjust VR3001 near the range at adjustment point by "Y signal timing adjustment (1)". In case of quantity of adjustment at VR3001 to much, perform the Y signal timing adjustment (1) again.



6. VIDEO I/O SECTION

6-1. Initial Setting

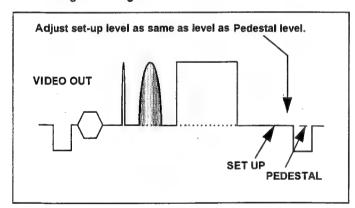
- Be sure to set the VIDEO LEVEL, SET UP, and HUE CHROMA LEVEL on the System Set Up menu to 0 unless otherwise specified.
- 2. Warm up the VTR more than 10 minutes before perform adjustmen.
- REF INPUT signal sholud be synchronized VIDEO INPUT signal.

6-2. Set Up Adjustment

Board	VIDEO I/O
Spec.	Set up level = Pedestal level ± 0.5 IRE
Test	VIDEO OUT
Adjust	VR30806
Input signal	
Mode	PLAY
Таре	VFM3580KM (PULSE & Bar portion)
M. Eq	WFM Monitor

1. Adjust the VR30806 so that the set up level is equal to the pedestal level.

Note: As this signal has some carrier leak and noise etc, set the Y filter switch on WFM Monitor and magifled the gain.

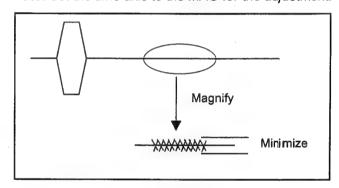


6-3. Carrier Balance Adjustment

Board	VIDEO I/O
Spec.	5 mV 以下
Test	VIDEO OUT
Adjust	VR30908 (PB BAL),
	VR30907 (PR BAL)
Input signal	
Mode	PLAY
Таре	VFM3580KM (Pulse & Bar portion)
M. Eq	WFM Monitor

- Use the WFM monitor in the single line sweep mode.
 Set the chroma filter to the ON, and maximize the gain.
- 2. Adjust VR30907 (PR BAL) and VR30908 (PB BAL) so that the carrier leak is minimum as shown in figure.

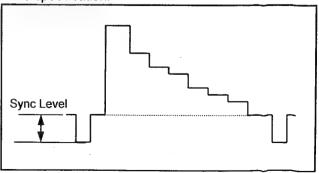
Note: Set the time axis to the MAG for the adjustment.



6-4. SYNC Level Adjustment

Board	VIDEO I/O
Spec.	40 IRE ± 1 IRE
Test	S-VIDEO (Y OUT)
Adjust	VR30805 (SYNC LEV)
Input signal	
Mode	PLAY
Таре	VFM3580KM (75% Color Bar portion)
M. Eq	WFM Monitor

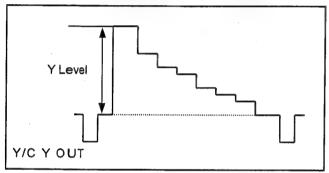
1. Adjust the VR30805 so that the sync level is within the specification.



6-5. Y/C Y Level Adjustment

Board	VIDEO I/O
Spec.	100 IRE ± 2%
Test	S-VIDEO (Y OUT)
Adjust	VR30803 (V LEV OFST),
	VR30802 (VIDEO LEV FINE)
Input signal	
Mode	PLAY
Таре	VFM3580KM (75%Color Bar portion)
M. Eq	WFM Monitor

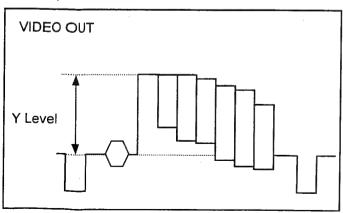
 Adjust VR30803(coarse) and VR30802(fine) so that the Y level is within the specification.



6-6. Composite Y Level Adjustment

Board	VIDEO I/O
Spec.	100 IRE ± 2%
Test	VIDEO OUT
Adjust	VR31102 (CPS LEV)
Input signal	
Mode	PLAY
Tape	VFM3580KM (75% Color Bar portion)
M. Eq	WFM Monitor

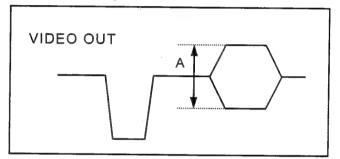
1. Adjust the VR31102 so that the Y level is within the specification.



6-7. Burst Level Adjustment

Board	VIDEO I/O
Spec.	40 IRE ± 1 IRE
Test	VIDEO OUT
Adjust	VR30906 (BURST LEV)
Input signal	
Mode	PLAY
Таре	VFM3580KM (75% Color Bar portion)
M. Eq	WFM Monitor

- 1. Connect the WFM monitor to the VIDEO OUT output.
- 2. Adjust the VR30906 so that the portion A (burst level) is within the specification.

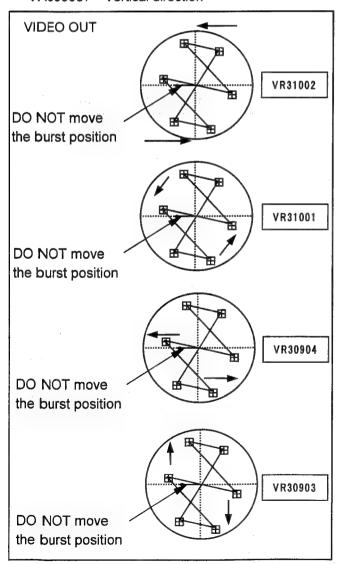


6-8. Vector Adjustment

VIDEO I/O
All vector are in the inner boxes
VIDEO OUT
VR31002(QUAD), VR31001(HUE OFS)
VR30904(ENC BY), VR30903(ENC RY)
PLAY
VFM3580KM (75% Color Bar portion)
Vector scope

- Connect the VIDEO OUT to the vector scope. And set the burst position by adjust phase of the vector scope.
- Adjust the VR31002, VR31001, VR30904, and VR30903 so that each vector point in the inner boxes of the vector scope.

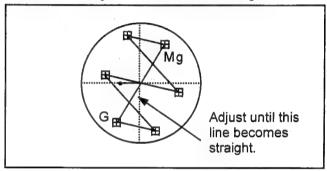
VR31002: Diagonal direction
VR31001: Rotating direction
VR30904: Horizontal direction
VR30903: Vertical direction



6-9. Vector Adjustment (R-Y TIMING)

Board	VIDEO I/O
Spec.	The line is become straight between Mg and G. And it vector point of Mg and G in the inner boxes.
Test	VIDEO OUT
Adjust	VR30901(RY DLY)
Input signal	
Mode	PLAY
Таре	VFM3580KM (75% Color Bar portion)
M. Eq	Vector scope

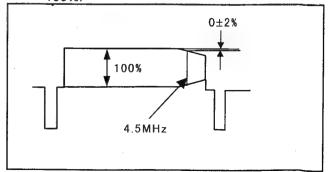
- Connect the VIDEO OUT to the vector scope. And set the burst position by adjust phase of the vector scope.
- 2. Adjust VR30901 so that line of between Mg and G is became straight line as shown in the figure below.



6-10. Y f Special Adjustment

Board	VIDEO I/O
Spec.	$4.5MHz = 0 \pm 2\%$
Test	VIDEO OUT
Adjust	VR30804 (CPS FREQ)
Input signal	
Mode	PLAY
Таре	VFM3580KM (H sweep portion)
M. Eq	WFM Monitor

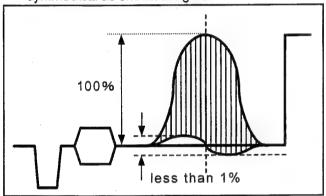
- Observe the Y signal portion of the VIDEO OUT signal on the WFM monitor, and adjust VR30804 so that the frequency characteristic becomes flat.
 - 1) Adjust until the 4.5 MHz level is 98 to 102%.
 - 2) The level at the center of the frequency is 100%.



6-11. Composite YC Timing Adjustment

Board	VIDEO I/O
Spec.	0 ± 10ns
Test	VIDEO OUT
Adjust	VR30910 (C DLY)
Input signal	
Mode	PLAY
Таре	VFM3580KM (Pulse & Bar portion)
M. Eq	WFM Monitor

- 1. Connect the WFM monitor to the VIDEO OUT.
- 2. Adjust the VR30910 so that the hatching portion is symmetrical as shown in figure.



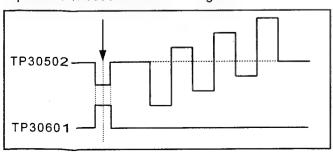
< Note >

- 1. After the adjustment is complete, perform the "6-7. Burst Level Adjustment" and "6-8. Vector Adjustment".
- 2. Set the item "08:CHROMA LEVEL" on the System Set Up menu to 0 after the adjustment is complete.

6-12. RSTW Adjustment

Board	VIDEO I/O
Spec.	0 ± 100nsec
Test	TP30601(BGP),TP30502(AD PB)
Adjust	VR30601(RSTW)
Input signal	VIDEO IN (75% Color Bar)
Mode	EE
Таре	
M. Eq	Oscilloscope

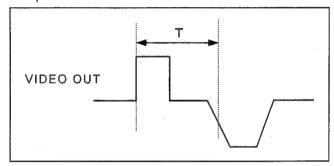
 Adjust the VR30601 so that the burst portion of TP30601 is syncronized to center of PB blanking pulse at TP30502 as shown in figure.



6-13. OSD Character Position Adjustment

Board	VIDEO I/O
Spec.	$T = 6.0 \pm 0.2 \mu sec$
Test	VIDEO MONITOR OUT
Adjust	VC31101(CHAR)
Input signal	VIDEO IN (50% flat field)
Mode	EE
Таре	We have ded the first light
M. Eq	WFM Monitor

- 1. Open the Basic Set Up menu and set the item "004: CHARA TYPE" to "WHITE".
- 2. Adjust the VC31101 so that the period T is within the specification.

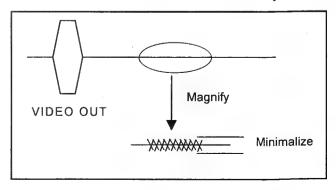


6-14. PR/PB Signal Balance Adjustment

* * * * * * * * * * * * * * * * * * * *
VIDEO I/O
Less than 8 mV
VIDEO OUT
VR30507 (PR CLAMP DC),
VR30508 (PB CLAMP DC)
VIDEO IN (50% flat field)
EE
WFM Monitor

- Use the WFM monitor in the single line sweep mode. Set the chroma filter to the ON, and maximize the gain.
- Adjust VR30507 (PR CLAMP DC) and VR30508 (PB BAL) so that the carrier leak is minimum as shown in figure.

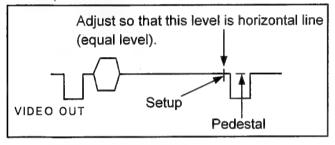
Note: Set the time axis to the MAG for the adjustment.



6-15. AD Y Clamp Level Adjustment

Board	VIDEO I/O
Spec.	Set up level = Pedestal level
	± 0.5 IRE
Test	VIDEO OUT
Adjust	VR30509 (Y CLAMP DEC)
Input signal	VIDEO IN (0% flat field)
Mode	EE
Таре	
M. Eq	WFM Monitor

- Open the "B00: MODE SELECT" menu on Service menu and set the item "B10: SHUFFLE EE" to ON.
- 2. Adjust the VR30509 so that the set up level is equal to the pedestal level.

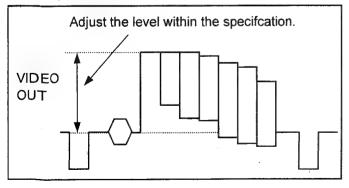


Note: As this signal has some carrier leak and noise etc, set the Y filter switch on WFM Monitor and magifled the gain

6-16. AD Y Input Level Adjustment (Y/C)

Board	VIDEO I/O
Spec.	100 ± 1 IRE
Test	VIDEO OUT
Adjust	VR30506 (AD Y)
Input signal	S-VIDEO IN (75% Color Bar)
Mode	EE
Tape	
M. Eq	WFM Monitor

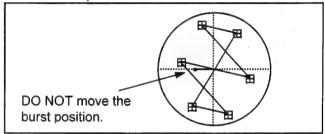
- Open the "B00: MODE SELECT" menu on Service menu and set the item "B10: SHUFFLE EE" to ON.
- 2. Adjust the VR30506 so that the Y level is within the specification.



6-17. Record Chroma Adjustment (Y/C)

Board	VIDEO I/O
Spec.	All vector are in the inner boxes
Test	VIDEO OUT
Adjust	VR30603 (AXIS), VR30505 (AD PB),
	VR30504 (AD PR)
Input signal	S-VIDEO IN (75% Color Bar)
Mode	EE
Таре	We to the state to the
M. Eq	Vector scope

- Open the "B00: MODE SELECT" menu on Service menu and set the item "B10: SHUFFLE EE" to ON.
- Adjust the VR30603, VR30505, and VR30504 so that each point of vector in the inner boxes of vector scope.

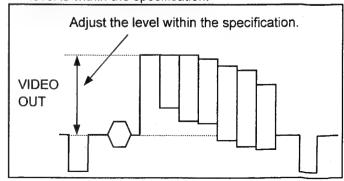


Note: The adjustment of playback process should be completed.

6-18. AD Y Input Level Adjustment (CPS)

Board	VIDEO I/O
Spec.	100 ± 1 IRE
Test	VIDEO OUT
Adjust	F03: CPS Y LEV(VIDEO ADJUST)
Input signal	VIDEO IN (75% Color Bar)
Mode	EE
Tape	gin 40 Te- 18 40 Nov 184
M. Eq	WFM Monitor

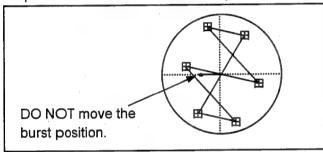
- Open the "B00: MODE SELECT" menu on the service menu, and set the item "B10: SHUFFLE EE" to the ON.
- Next, select the open the "F00: VIDEO ADJUST", and select the item "F03: CPS Y LEV".
- 3. Press "PAUSE (+)" or "PLAY (-)" button so that the Y level is within the specification.



6-19. Record Chroma Adjustment (CPS)

Board	VIDEO I/O
Spec.	All vector are in the inner boxes
Test	VIDEO OUT
Adjust	F02: CPS AXIS OFS(VIDEO ADJUST)
	F04: C LEV(VIDEO ADJUST)
Input signal	VIDEO IN (75% Color Bar)
Mode	EE
Таре	
M. Eq	Vector scope

- Open the "B00: MODE SELECT" menu on the Service menu, and set the item "B10: SHUFFLE EE" to the ON.
- 2. Next, open the "F00: VIDEO ADJUST" menu and select the item "F02: CPS AXIS OFS".
- 3. Press "PAUSE (+)" or "PLAY (-)" button so that all vector points in inner boxes of vector scope.
- Next, select the item "F04:C LEV". And press "PAUSE (+)" or "PLAY (-)" button so that all vector points in inner boxes of vector scope.

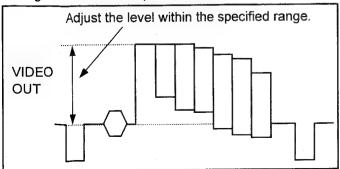


Note: The adjustment of playback process should be completed.

6-20. EEY Level Adjustment

Board	VIDEO I/O
Spec.	100 ± 1 IRE
Test	VIDEO OUT
Adjust	VR30801 (EE Y LEV)
Input signal	VIDEO IN (75% Color Bar)
Mode	EE
Таре	
M. Eq	WFM Monitor

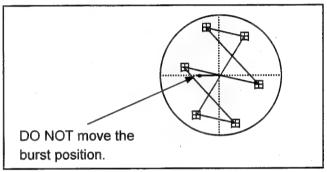
- 1. Connect the WFM monitor to the VIDEO OUT.
- 2. Adjust the VR30801 so that the Y level of the video signal is within the specification.



6-21. EE Chroma Adjustment

Board	VIDEO I/O
Spec.	All vector are in the inner boxes
Test	VIDEO OUT
Adjust	VR31101 (EE C LEV)
Input signal	VIDEO IN (75% Color Bar)
Mode	EE
Tape	
M. Eq	Vector scope

- 1. Connect the vector scope to the VIDEO OUT.
- 2. Adjust the VR31101 so that the all vectors point are in the inner boxes.

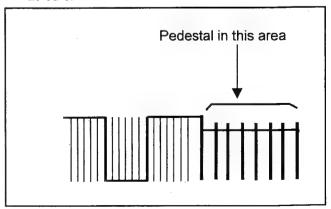


Note: The adjustment of playback process should be completed.

6-22. VV Clamp Potential Adjustment

Board	VIDEO I/O
Spec.	0 ± 0.5 IRE
Test	VIDEO OUT
Adjust	F18:VV CLAMP DC
	(VIDEO ADJUST)
Input signal	
Mode	PLAY
Tape	VFM3580KM (75% Color Bar portion)
M. Eq	WFM Monitor

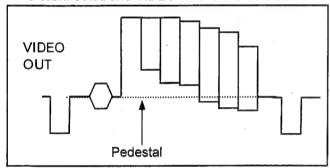
- Open the "F00: VIDEO ADJUST" menu on Service menu and select the item "F18: VV CLAMP DC".
- 2. Press "PAUSE (+)" or "PLAY (-)" button so that the pedestal level of 11H line (it located after V SYNC and equilizing pluse) is the sams as pedestal level as other line.



6-23. EE Clamp Potential Adjustment

Board	VIDEO I/O
Spec.	$0 \pm 0.5 \text{IRE}$
Test	VIDEO OUT
Adjust	F17:EE CLAMP DC(VIDEO ADJUST)
Input signal	VIDEO IN (75% Color Bar)
Mode	EE
Таре	-
M. Eq	WFM Monitor

- 1. Open "F00: VIDEO ADJUST" menu on Service menu and select the itemn "F17: EE CLAMP DC".
- Press "PAUSE (+)" or "PLAY (-)" button so that the same pedestal level, when the VIDEO IN cable is disconnected and VIDEO IN cable is connected.



6-24. SCH Detection Adjustment

Board	VIDEO I/O
Spec.	See below figure
Test	TP30607
Adjust	VR30602 (SCH), VR30604 (SCH P)
Input signal	VIDEO IN (SCH±70°)
Mode	EE
Таре	
M. Eq	WFM Monitor

- 1. Set the SCH is -70° of SCH signal generator.
- Slowly turn the VR30602 counterclockwise until the TP30607 is changed from "H" to "L".
- 3. Set the SCH is +70° of SCH signal generator.
- 4. Slowly turn the VR30604 counterclockwise until the TP30607 is changed from "H" to "L".

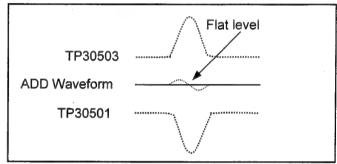
Note:

- When turning the VR counterclockwise, be sure to turn it slowly.
- 2. Be sure to perform the adjustment in the direction that the TP30607 is changed from the "H" to the "L".

6-25. AD Y PR Timing Adjustment

Board	VIDEO I/O
Spec.	See bolow
Test	TP30501 (AD PR)
	TP30503 (AD Y)
Adjust	VR30402 (PR TMG1)
Input signal	Modulation 12.5T Pulse & Bar
Mode	EE
Tape	
M. Eq	Oscilloscope

1. Set the oscilloscope to the CH2 INVERT mode (TP30501), and the CH1/CH2 ADD mode.

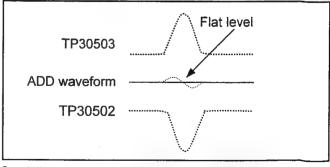


2. Adjust the VR30402 until the ADD signal becomes

6-26. AD Y PB Timing Adjustment

Board	VIDEO I/O
Spec.	See below
Test	TP30502 (AD PB)
	TP30503 (AD Y)
Adjust	VR30401 (PB TMG1)
Input signal	Modulation 12.5T Palse & Bar
Mode	EE
Таре	****
M. Eq	Oscilloscope

 Set the oscilloscope to the CH2 INVERT mode (TP30502), and the CH1/CH2 ADD mode.

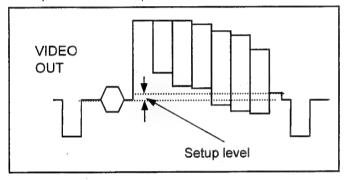


Adjust the VR30401 until the ADD signal becomes flat.

6-27. Set Up Level Adjustment (1)

Board	VIDEO I/O
Spec.	SETUP LEVEL = 7.5 ± 0.5 IRE
Test	VIDEO OUT
Adjust	F14:SET UP ADD (VIDEO ADJUST)
Input signal	
Mode	PLAY
Таре	VFM3580KM(75% Color Bar portion)
M. Eq	WFM Monitor

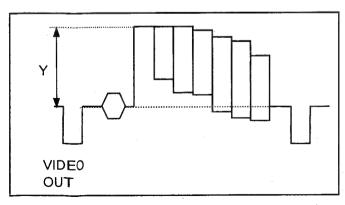
- 1. Open the "F00: VIDEO ADJUST" menu on Service menu and select the item "F14: SET UP ADD".
- 2. Press "PAUSE(+)" or "PLAY (-)" button so that the set up level is within specification.



6-28. Set Up Level Adjustment (2)

Board	VIDEO I/O
Spec.	Y = 100 ± 1 IRE
Test	VIDEO OUT
Adjust	F15:V LEV ADD(VIDEO ADJUST)
Input signal	
Mode	PLAY
Таре	VFM3580KM(75% Color Bar portion)
M. Eq	WFM Monitor

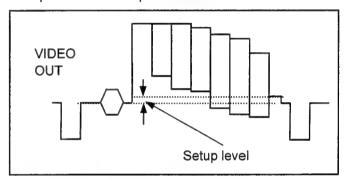
- Open the "F00: VIDEO ADJUST" menu on Service menu and select the item "F15: V LEV ADD".
- 2. Press "PAUSE(+)" or "PLAY (-)" so that the video level is within the specification.



6-29. Record Set Up Cut Adjustment (1)

VIDEO I/O
SETUP LEVEL = 7.5 ± 0.5 IRE
VIDEO OUT
F16:Y CLAMP OUT(VIDEO ADJUST)
VIDEO IN (75% Color Bar)
EE
Now state was than that the state of
WFM Monitor

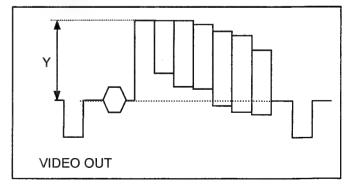
- Open the "B00: MODE SELECT" menu on the Service menu, and set the item "B10: SHUFFLE EE" to ON.
- 2. Open the "F00: VIDEO ADJUST" menu and select the item "F16: Y CLAMP CUT".
- 3. Press "PAUSE(+)" or "PLAY (-)" button so that the set up level is within specification.



6-30. Record Set Up Cut Adjustment (2)

Board	VIDEO I/O
Spec.	Y=100 ± 1 IRE
Test	VIDEO OUT
Adjust	VR30501
Input signal	VIDEO IN (75% Color Bar)
Mode	EE
Таре	
M. Eq	WFM Monitor

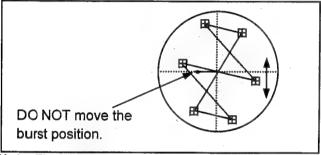
- Open the "B00: MODE SELECT" menu on the service menu, and set the item "B10: SHUFFLE EE" to ON.
- Adjust VR30501 so that the video level is within the specification.



6-31. Record Set Up Cut Adjustment (3)

Board	VIDEO I/O
Spec.	All vector are in the inner boxes
Test	VIDEO OUT
Adjust	VR30502
Input signal	VIDEO IN (75% Color Bar)
Mode	EE
Таре	
M. Eq	Vector scope

- Open the "B00: MODE SELECT" menu on the service menu, and set the item "B10: SHUFFLE EE" to the ON.
- 2. Adjust the VR30502 so that the all vectors point are in inner boxes on vector scope.

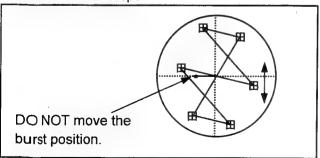


Note: The adjustment of playback process should be completed.

6-32. Record Set Up Cut Adjustment (4)

Board	VIDEO I/F
Spec.	All vector are in the inner boxes
Test	VIDEO OUT
Adjust	VR30503
Input signal	VIDEO IN (75% Color Bar)
Mode	EE
Таре	
M. Eq	Vector scope

- Open the "B00: MODE SELECT" menu on the service menu, and set the item "B10: SHUFFLE EE" to ON.
- 2. Adjust VR30503 so that the all vectors point in inner boxes on vector scope.



Note: The adjustment of playback process should be completed.

7. AUDIO SECTION

7-1. Initial Setting of Audio Adjustment

- 1. Set the item "102:S/F/R " on SET UP MENU TO "EE".
- Please warm up the VTR about 10 minute before adjustment.
- Set the REC VR to center position and set the CONTROL SW to LOCAL position on the Front Panel.
- 4. In case of use Audio Precision, please set switch of impedance as indicated as below.
 - OSC Output Impedance: Less than 25Ω (Low)"
 - Input Impedance : "more than 100ΚΩ (High)".

7-2. Output Level Adjustment

AUDIO
-8 dBV± 0.2 dB
LINE OUT 1,2 (CH 1,CH 2)
VR40201 (CH 1), VR40202 (CH 2)
PLAY
VFM3580KM
VTVM (Audio Precision)

- Adjust VR40201(CH1) and VR40202(CH2) so that the output level (LINE OUT 1) is become in the specification.
- Confirm that the output level of LINE OUT 2 in the specisication.

7-3. Input Level Adjustment

	zovor Aujuotinent
Board	AUDIO
Spec.	-22.6 dBV± 0.2 dBV
Test	TP40004 (CH 1)
	TP40005 (CH 2)
Adjust	VR40003 (CH 1), VR40004 (CH 2)
Input Signal	LINE IN (1KHz, -8dB: Sinewaye)
Mode	EJECT
Tape	
M.Eq	VTVM (Audio Precision)

 Adjust VR40003(CH1) and VR40005(CH2) so that the level of Test Point is becomes in the specification.

NOTE: Set the REC VR to center(click) posito n.

7-4. EE Level Adjustment

Board	AUDIO
Spec.	$-8 \text{ dBV} \pm 0.2 \text{ dB}$
Test.	LINE OUT (CH 1,2)
Adjust	VR40301 (CH 1), VR40302 (CH 2)
Input Signal	LINE IN (1KHz, -8dB sinewave)
Mode	EJECT
Таре	
M.Eq	VTVM (Audio Precision)

1. Adjust VR40301(CH1) and VR40302(CH2) so that the Output level is becomes in the specification.

NOTE: Please perform this adjustment after "7-2.Output Level Adj." and "7-3.Input Level Adj.

7-5. Level Meter Adjustment

Board	AUDIO
Spec.	AUDIO METER DISPLAY: -20dB
Test	
Adjust	VR40303 (CH 1), VR40304 (CH 2)
Input Signal	LINE IN (1KHz、-8dB sinewave)
Mode	EE
Таре	
M.Eq	60 to 20 to 10 to

 Adjust VR40303 and VR40304 so that the Audio Level Meter displayed –20dB position.

7-6. Initial Setting of CUE AUDIO Adj.

- Set the bit 2 of Dip SW 902 on the AV SYSCON P.C.Board to ON position.
- Set the "LOCAL/MENU/REMOTE" switch on the Front panel to "MENU" position for open the Service Menu.
- Keep Pressing "END" button, press "AUDIO SELECT" button, then CH1 and CH2 indicator put out light on Audio Level Meter for CUE Audio signal output from LINE OUT terminal.

NOTE: In case of CH1 and CH2 indicator displayed, when release the END button, press END button again, then if CH1 and CH2 indicator become put out light condition, it no problem...

- 4. For operate VTR, keep pressing END button, press operation button (PLAY,FF etc).
- 5. After finish CUE AUDIO adjustment, please escape from Service menu mode.

7-7. CUE AUDIO PB LEVEL Adj.

Board	AUDIO
Spec.	-8 dBV± 0.5 dB
Test	LINE OUT (CH1.CH2)
Adjust	VR40701
Input Signal	
Mode	PLAY
Таре	VFM3580KM (0 to 14 min)
M.Eq	VTVM (Audio Precision)
Mode Tape	VFM3580KM (0 to 14 min)

 Adjust VR40701 so that the LINE OUT output level is become in the specification.

7-8. CUE AUDIO BIAS CURRENT Adj.

	residents sometiment.
Board	AUDIO
Spec.	6.5 mVrms ± 0.2 mV
Test	TP40601 (HOT)
	TP40602 (COLD)
Adjust	VR40601
Input Signal	
Mode	REC
Таре	
M.Eq	VTVM

- Connect the VTVM between TP40601 (HOT) and TP40602 (COLD).
- 2. Adjust VR40601 so that the level at test point in the specification.

7-9. CUE REC/PB Level Adjustment

Board	AUDIO
Spec.	-8 dBV± 1.0 dB
Test	LINE OUT (CH1,2)
	TP40603
Adjust	VR40602
Input Signal	LINE IN (-8 dB,1KHz sinewave)
Mode	REC / PLAY
Таре	Blank Tape
M.Eq	VTVM (Audio Precision)

- Supply a 1KHz, -8dB signal into the LINE Input and record the input signal for a few minutes.
- 2. Playback the just recorded portion.
- 3. Measure the level at LINE OUT and confrm that level difference to -8 dB.
- 4. Place unit into REC mode for a few minutes and playback the just recorded portion.
- 5. Adjust VR40602 so that the LINE OUT level is in the specification.

NOTE: In case of use Audio Precision, set indicated as below.

- * AMPLITUDE
- * BANDWIDTH

: 22Hz, 22KHz

* FILTER: OFF

SECTION 5

BLOCK DIAGRAMS

CONTENTS

OVERALL BLOCK DIAGRAM	BLK-1
FRONT BLOCK DIAGRAM	BLK-2
RF BLOCK DIAGRAM.	BLK-3
SERVO BLOCK DIAGRAM.	BLK-4 BLK-5
DIGITAL CORE BLOCK DIAGRAM	BLK-6
VIDEO 1/O BLOCK DIAGRAM	BLK-8
AV SYSCON BLOCK DIAGRAM	BLK-9
TRO BLOCK DIACRAM	PI K-10

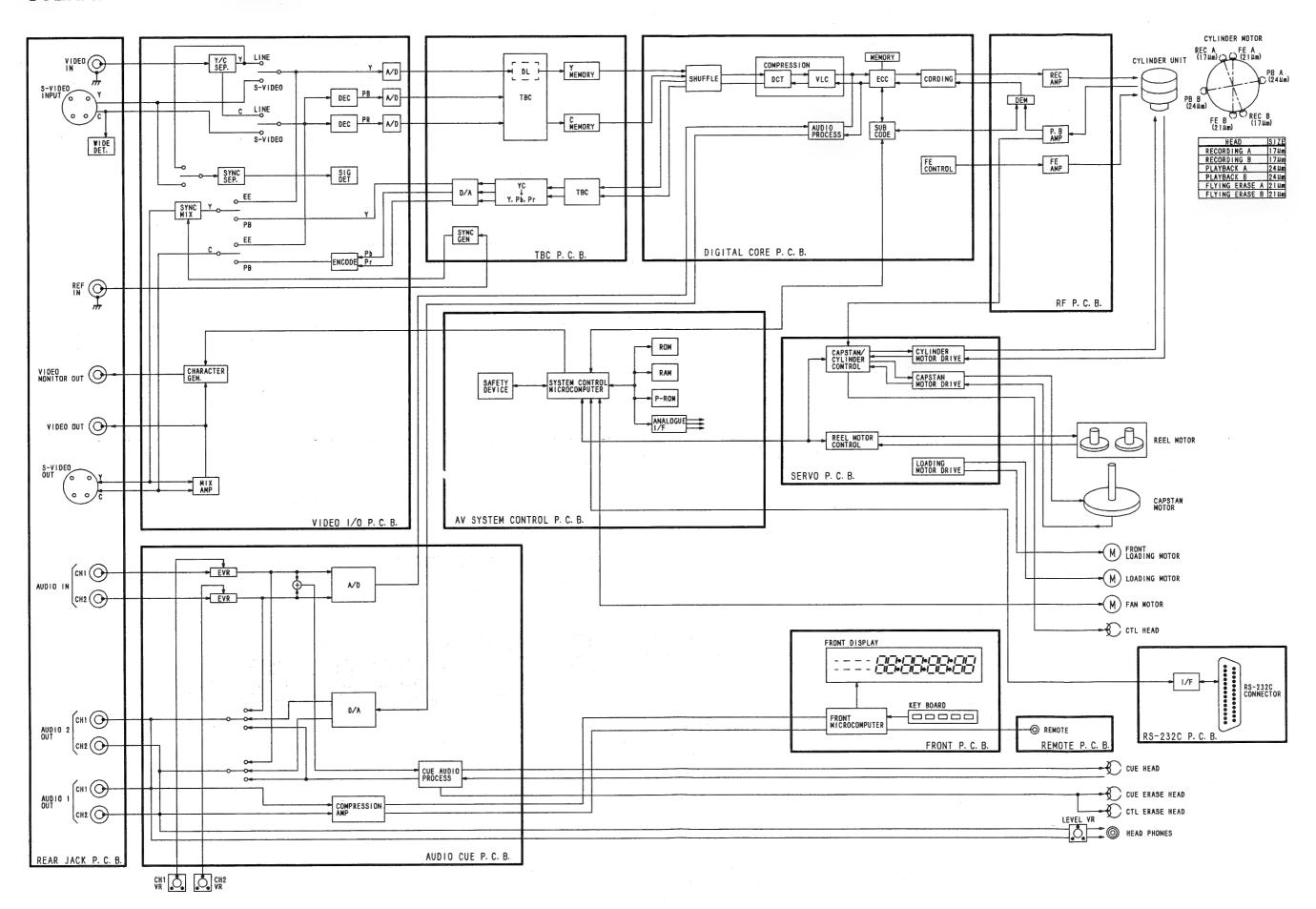
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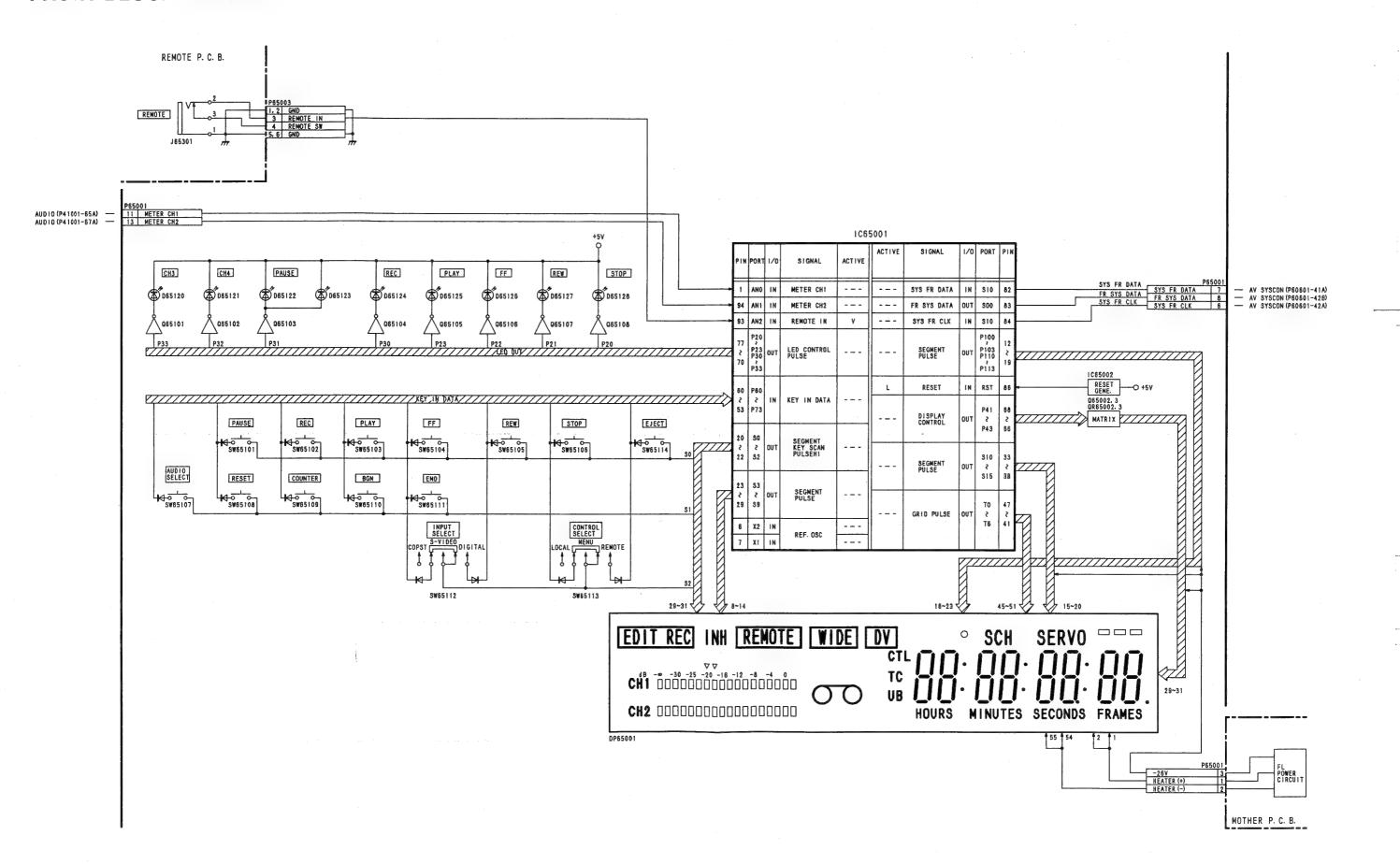
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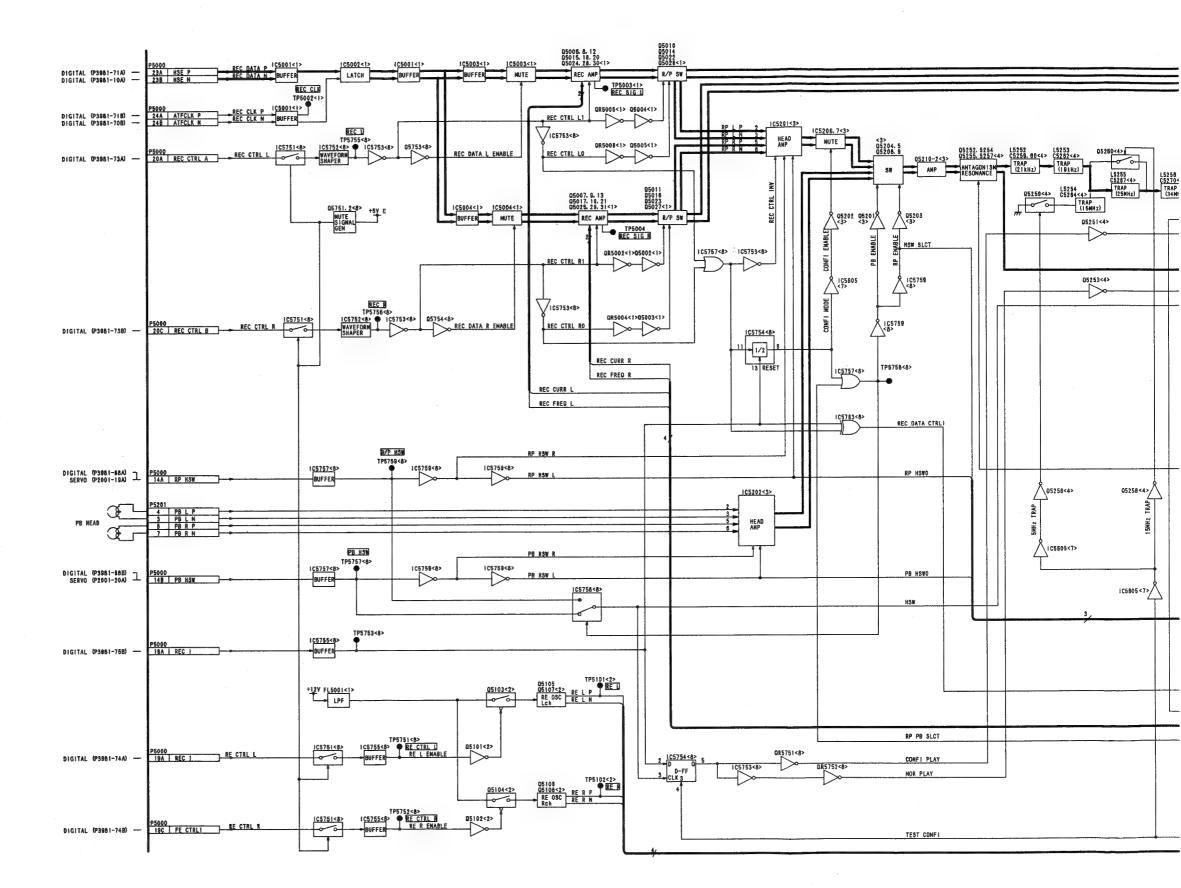
OVERALL BLOCK DIAGRAM

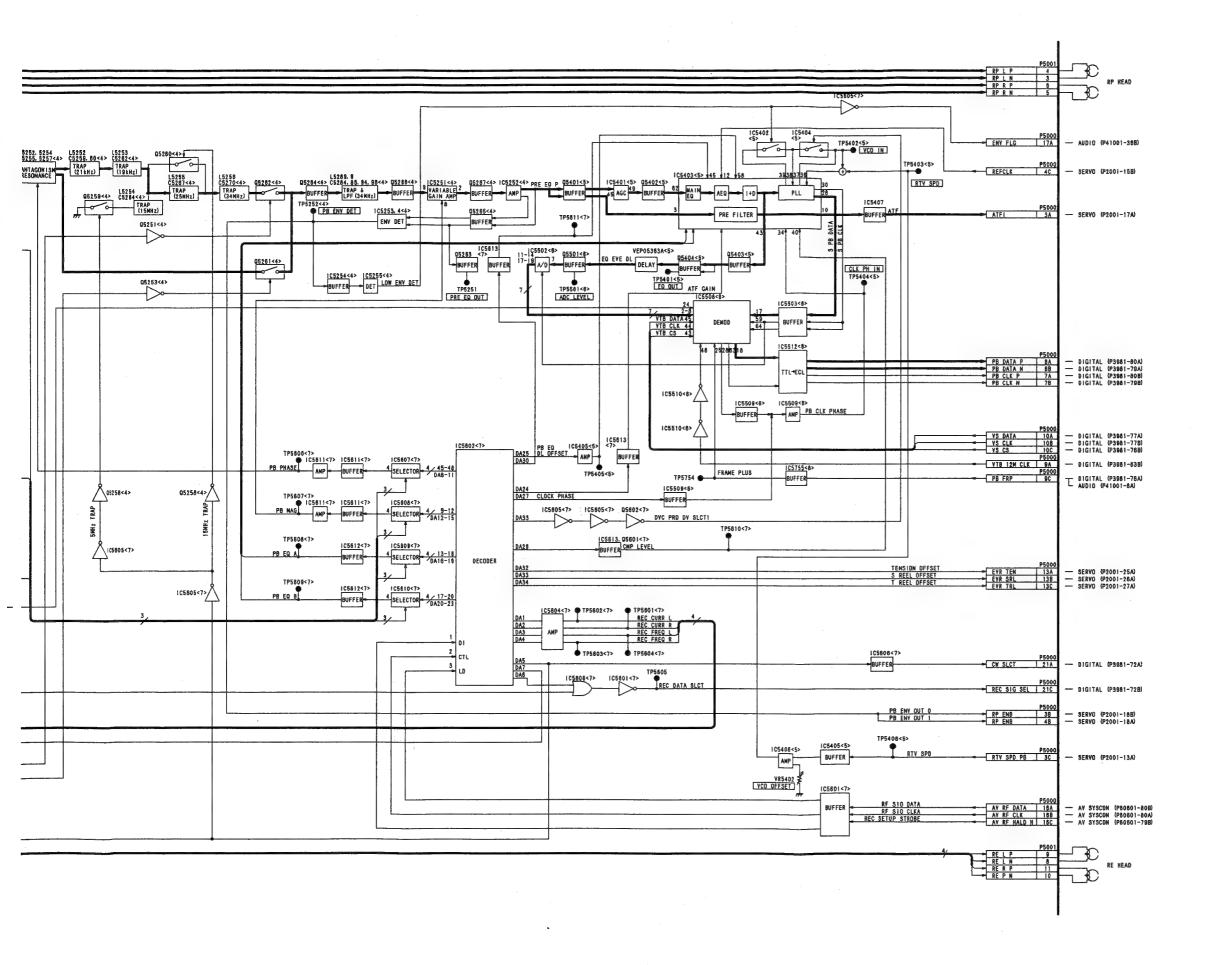


FRONT BLOCK DIAGRAM

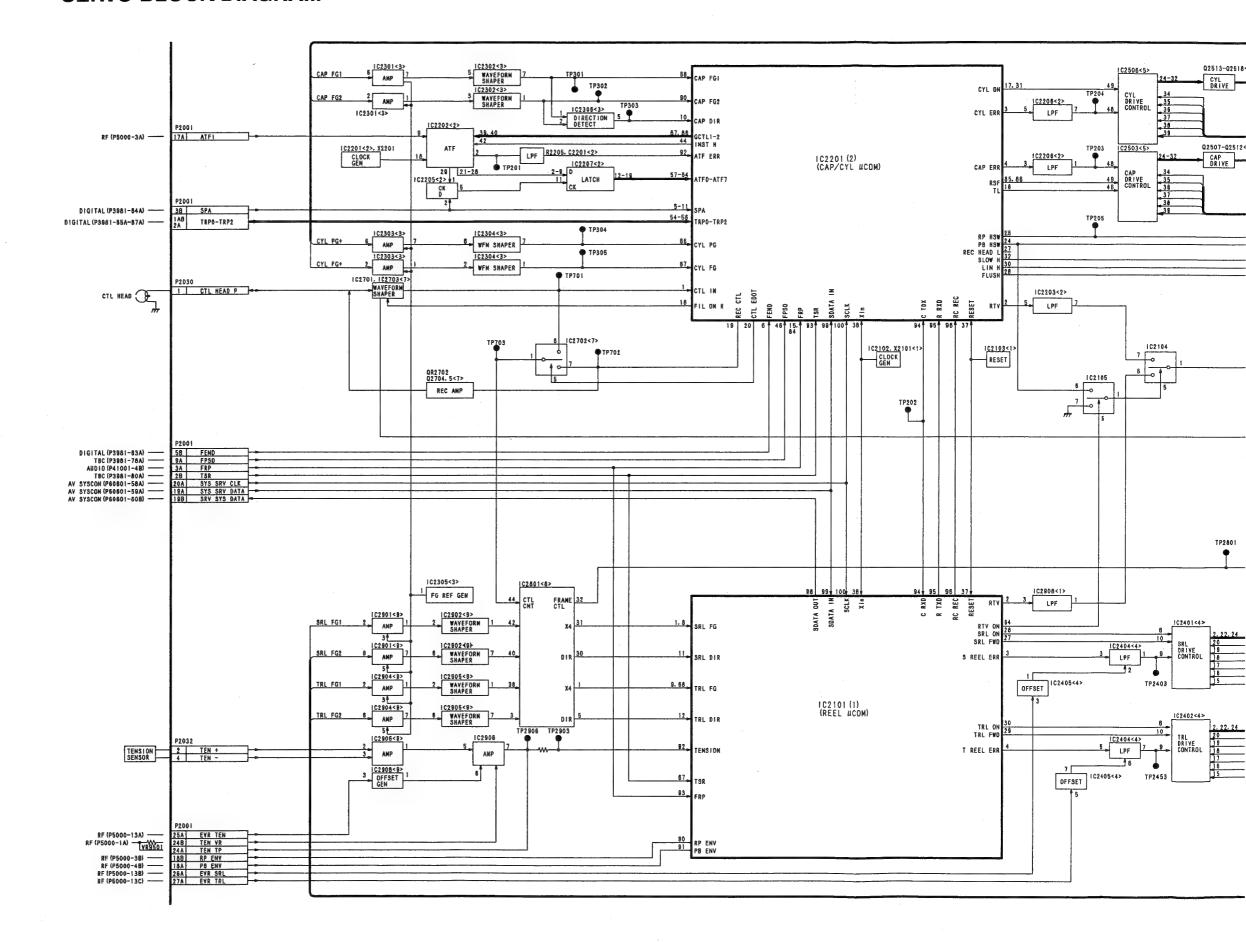


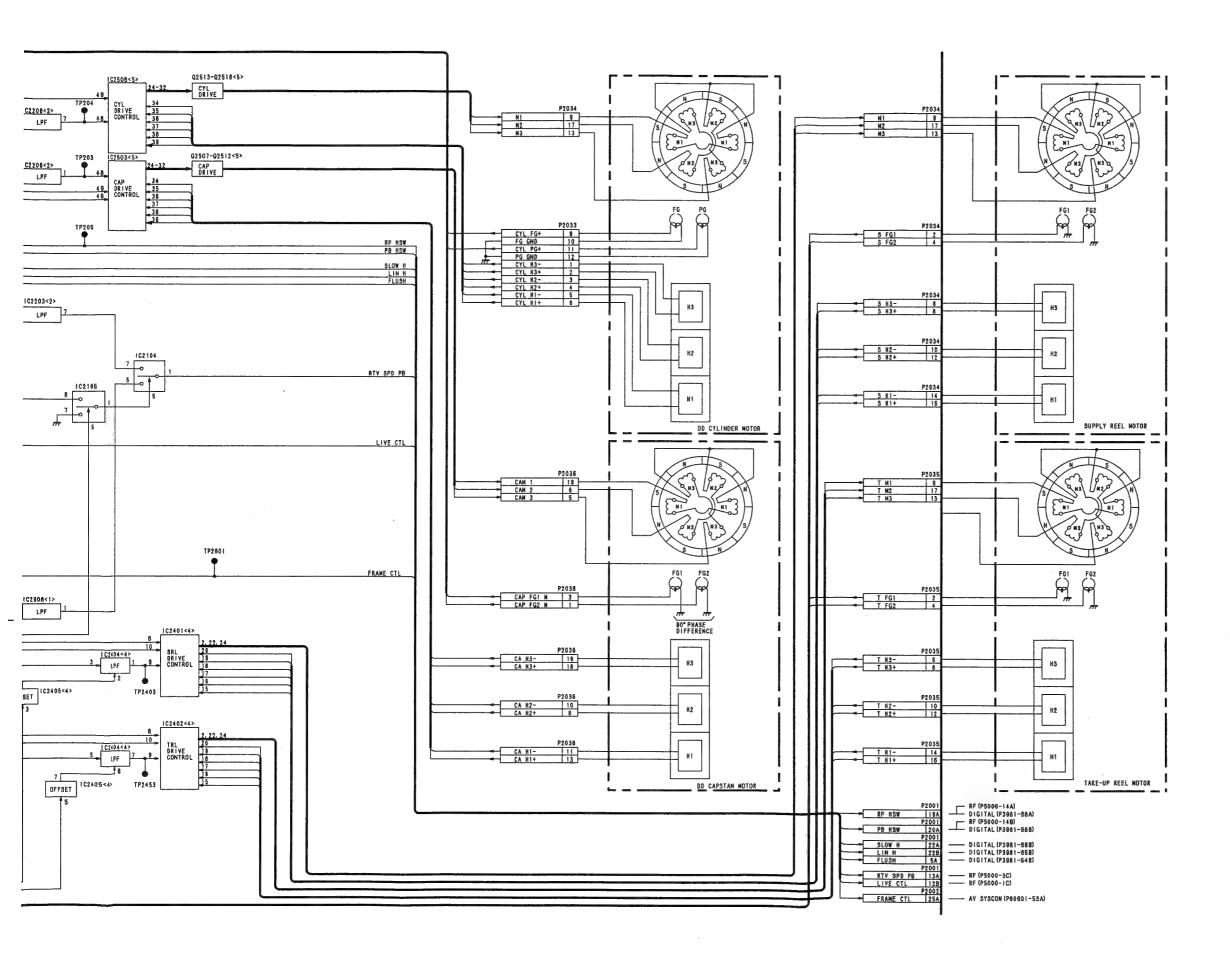
RF BLOCK DIAGRAM





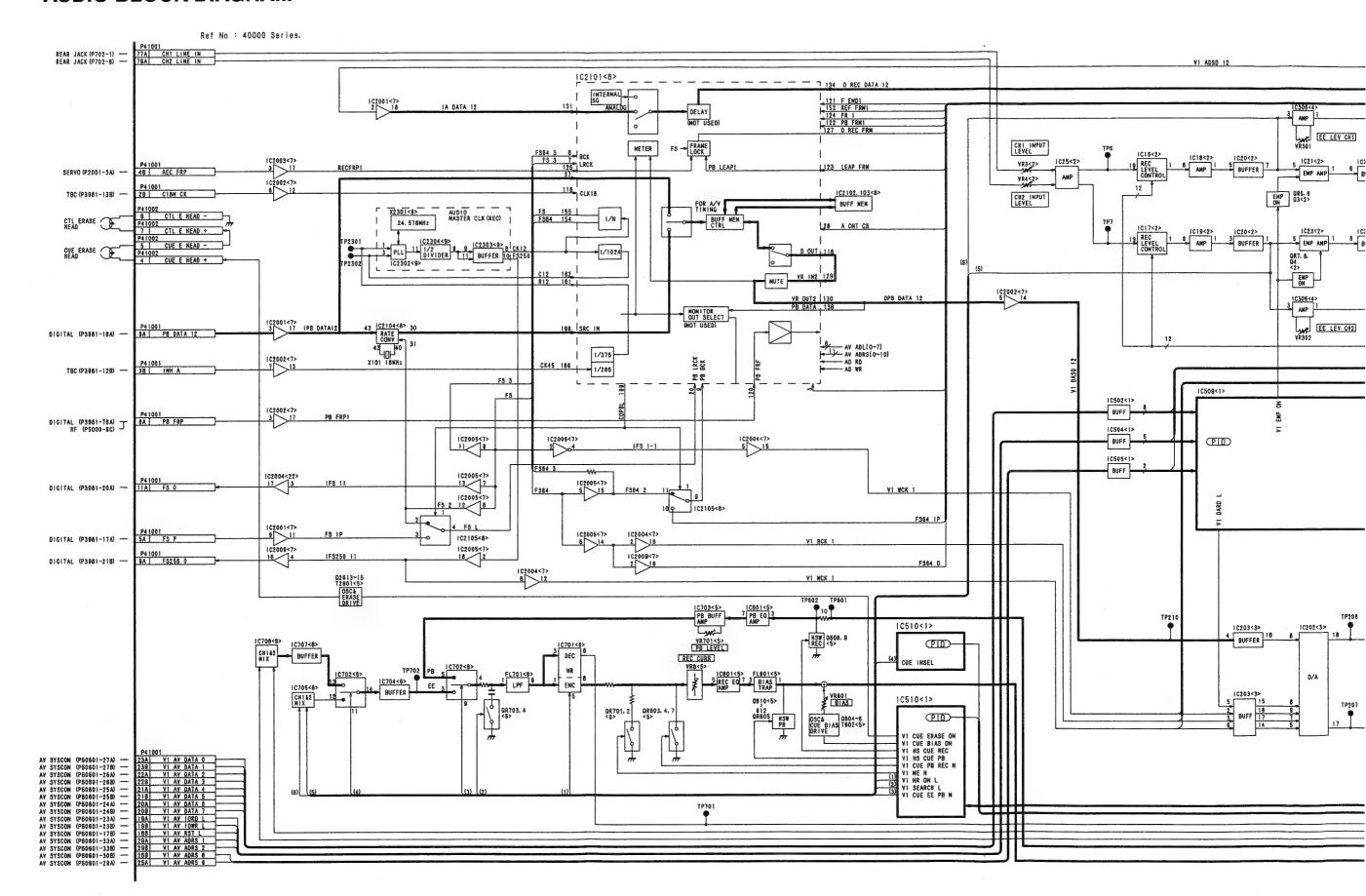
SERVO BLOCK DIAGRAM

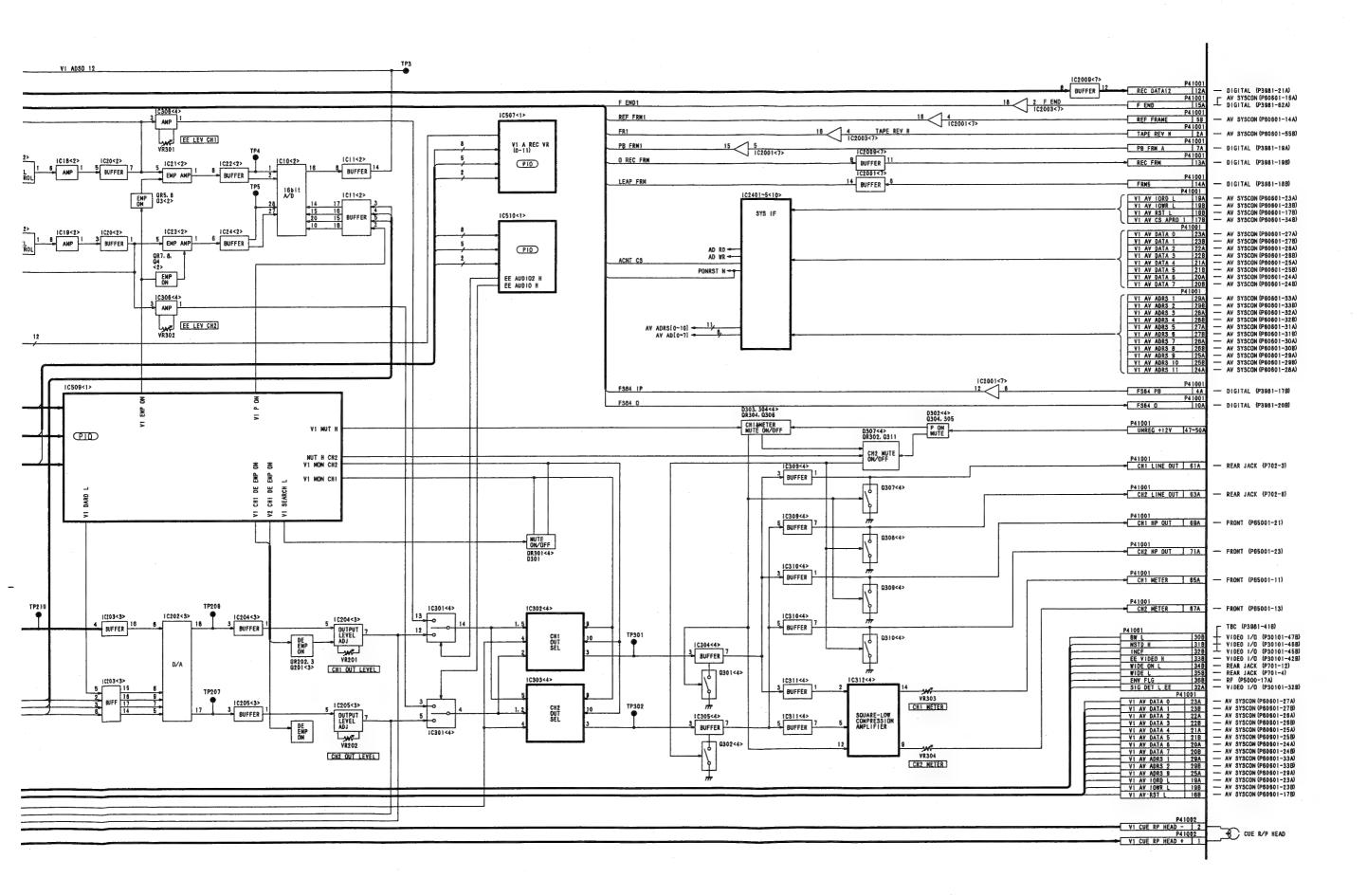




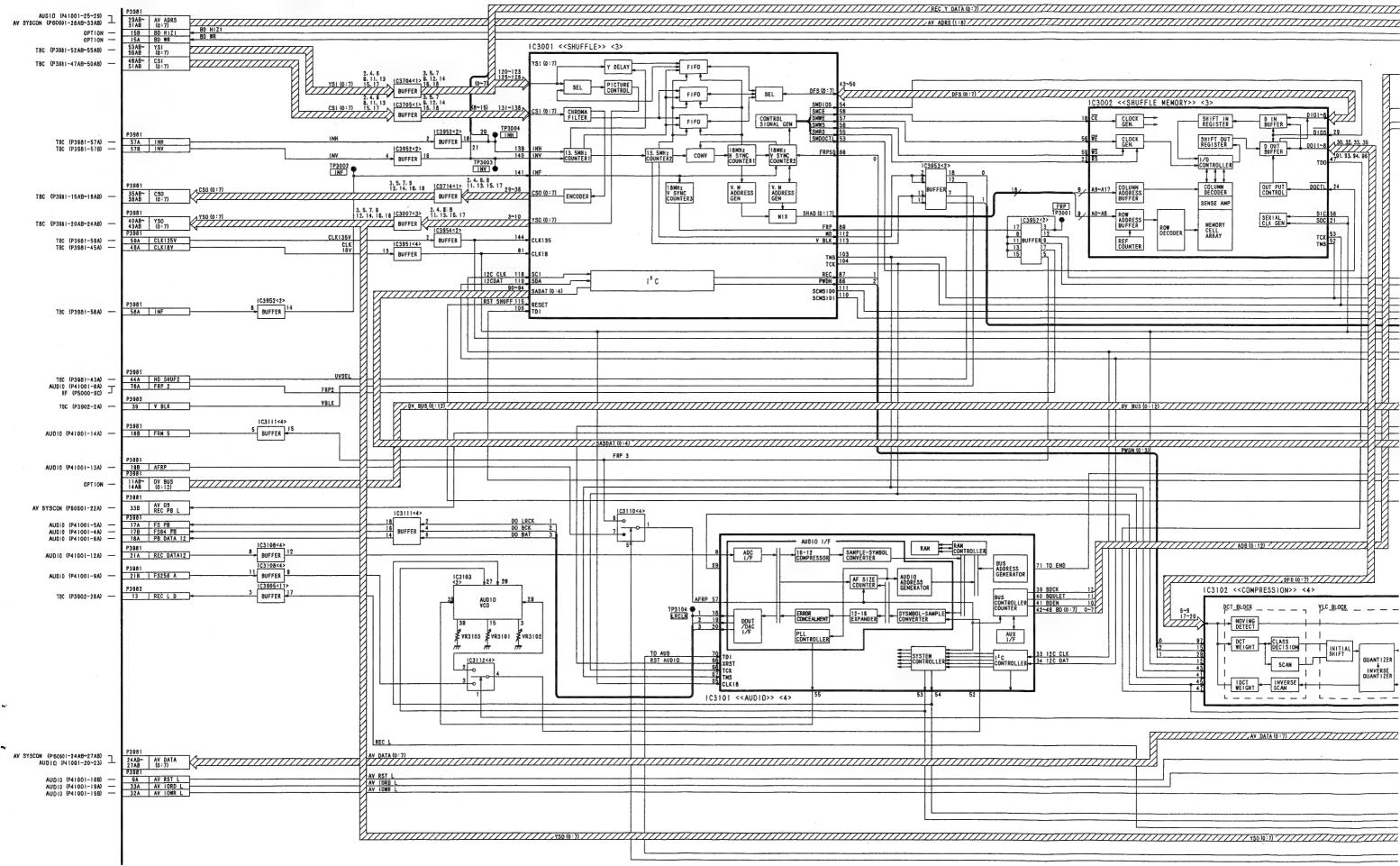
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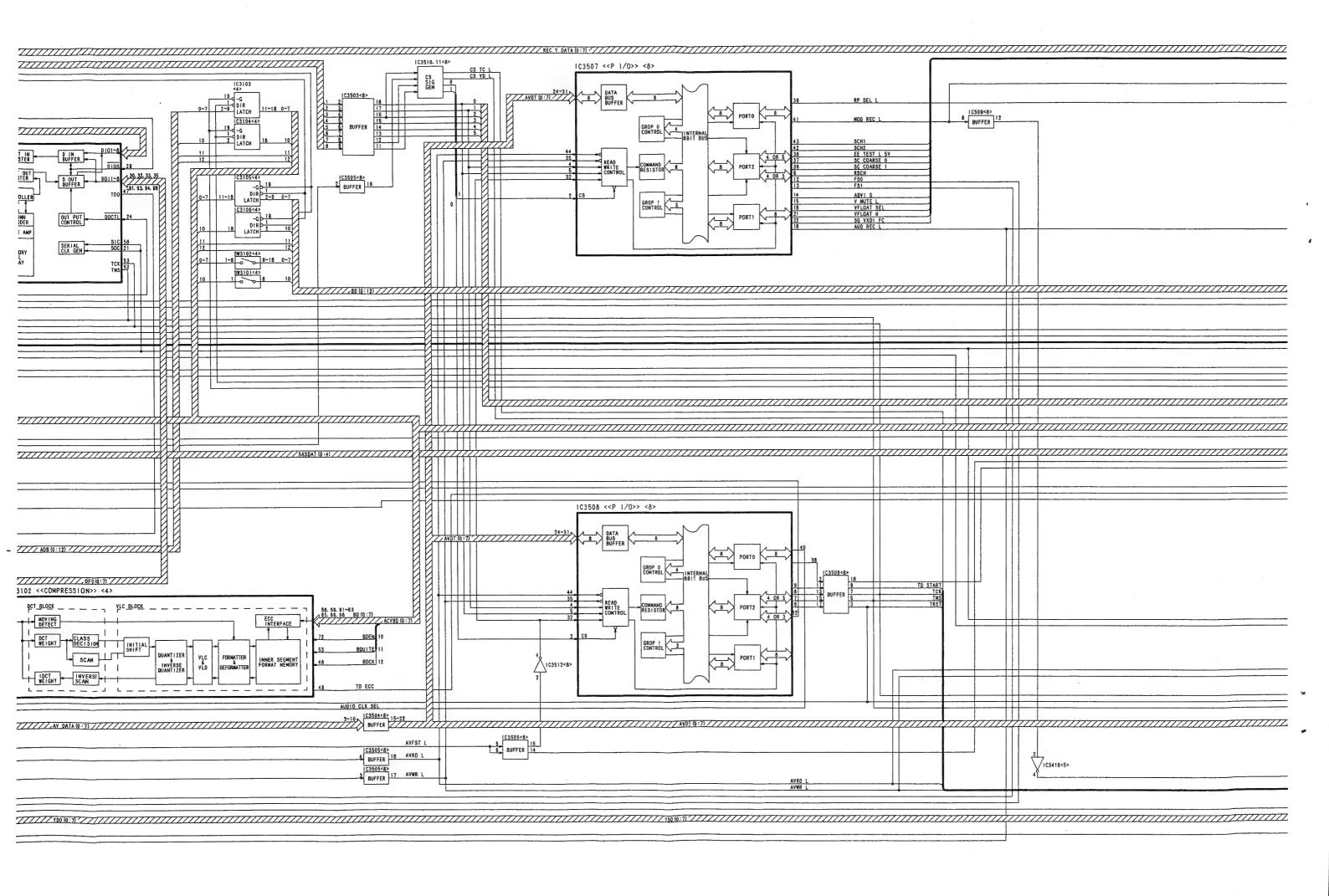
AUDIO BLOCK DIAGRAM

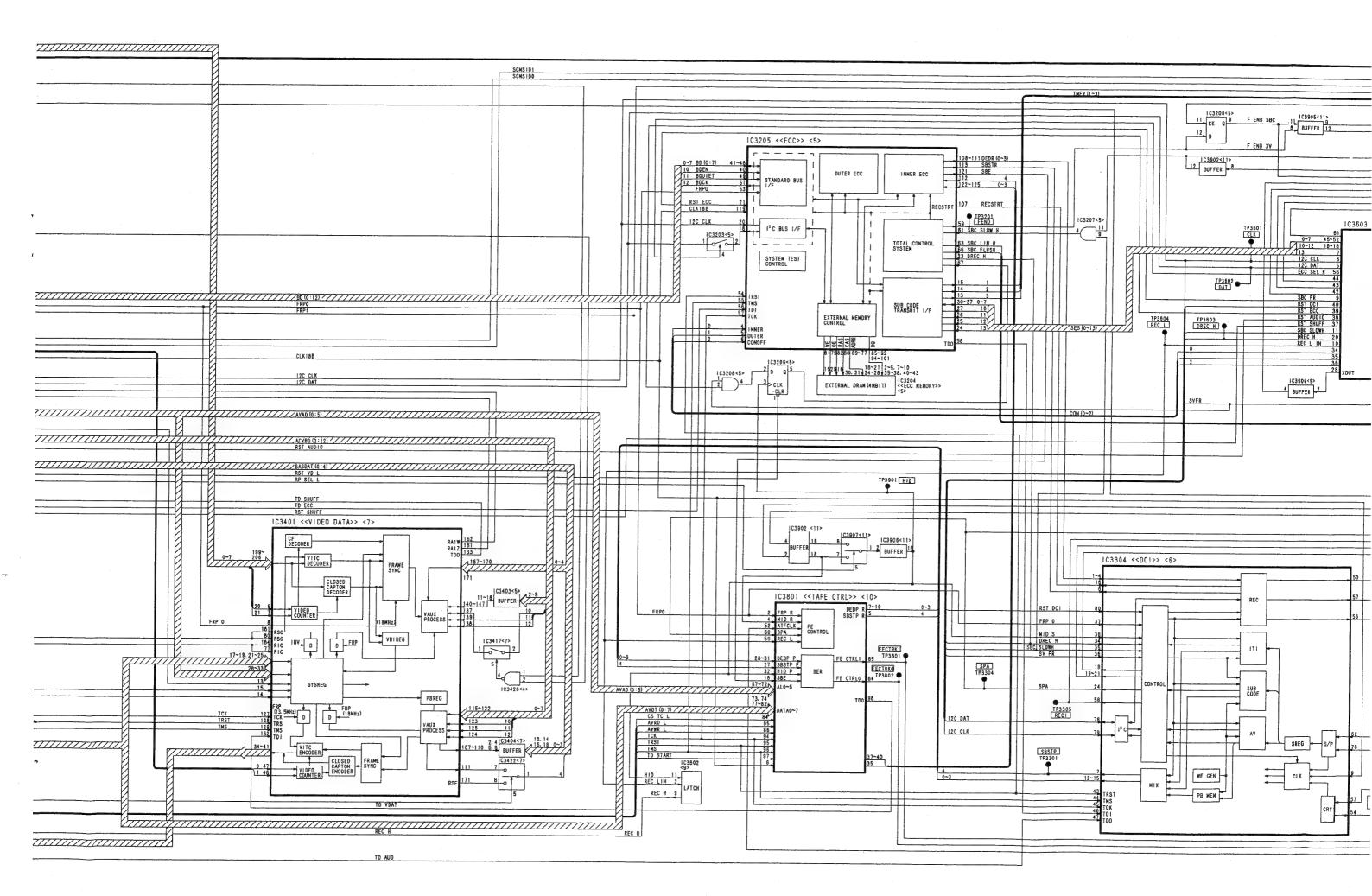


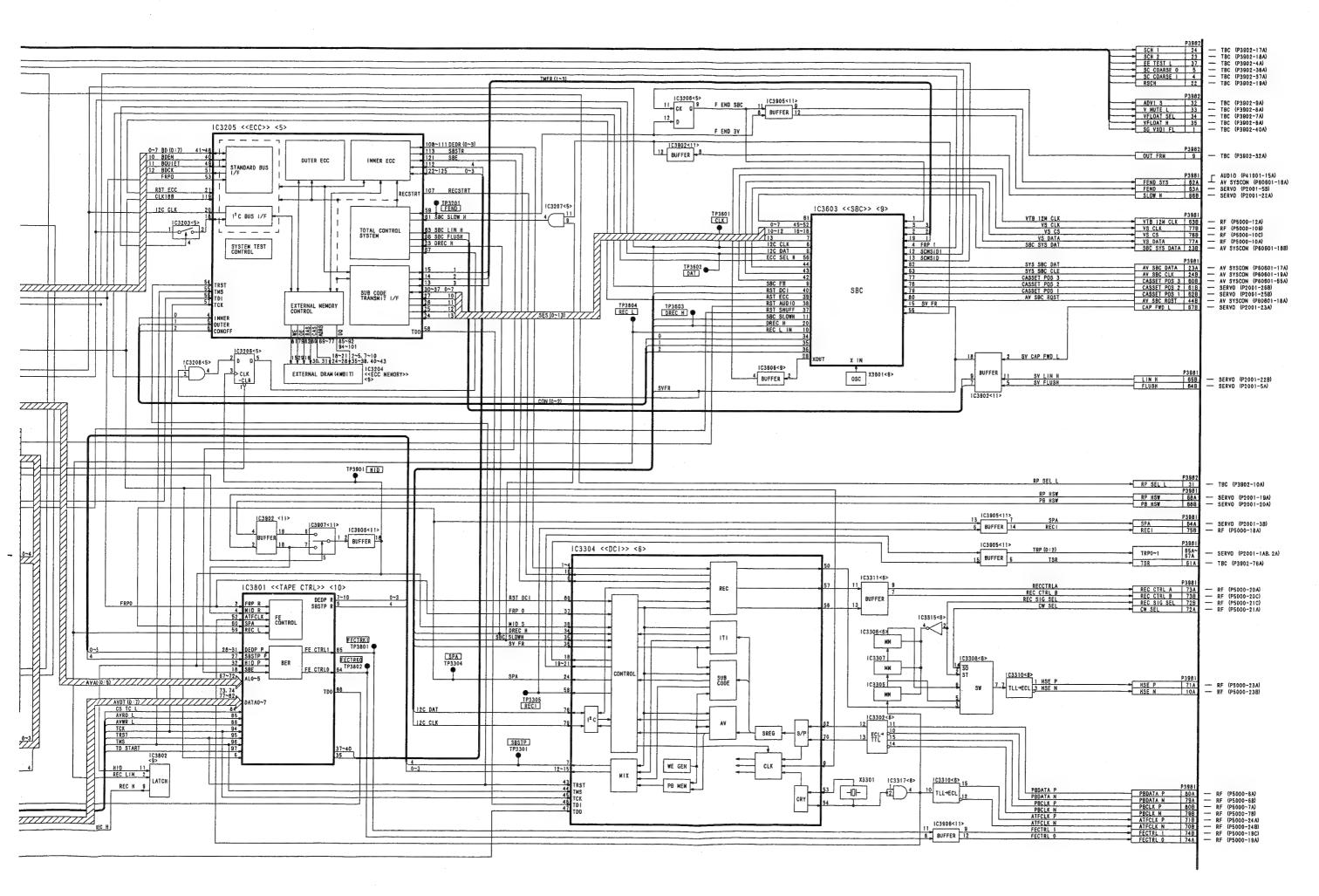


DIGITAL CORE BLOCK DIAGRAM

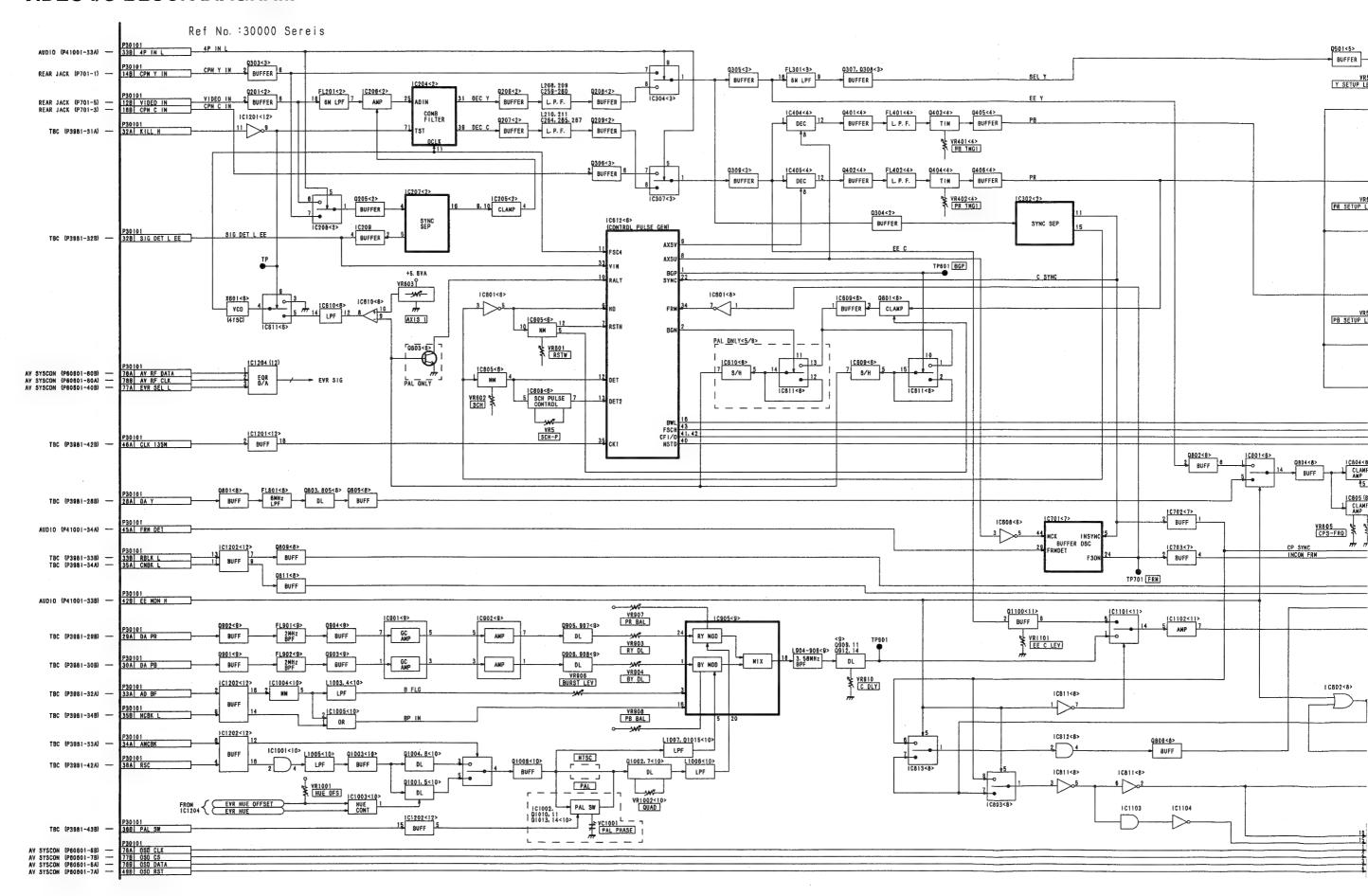


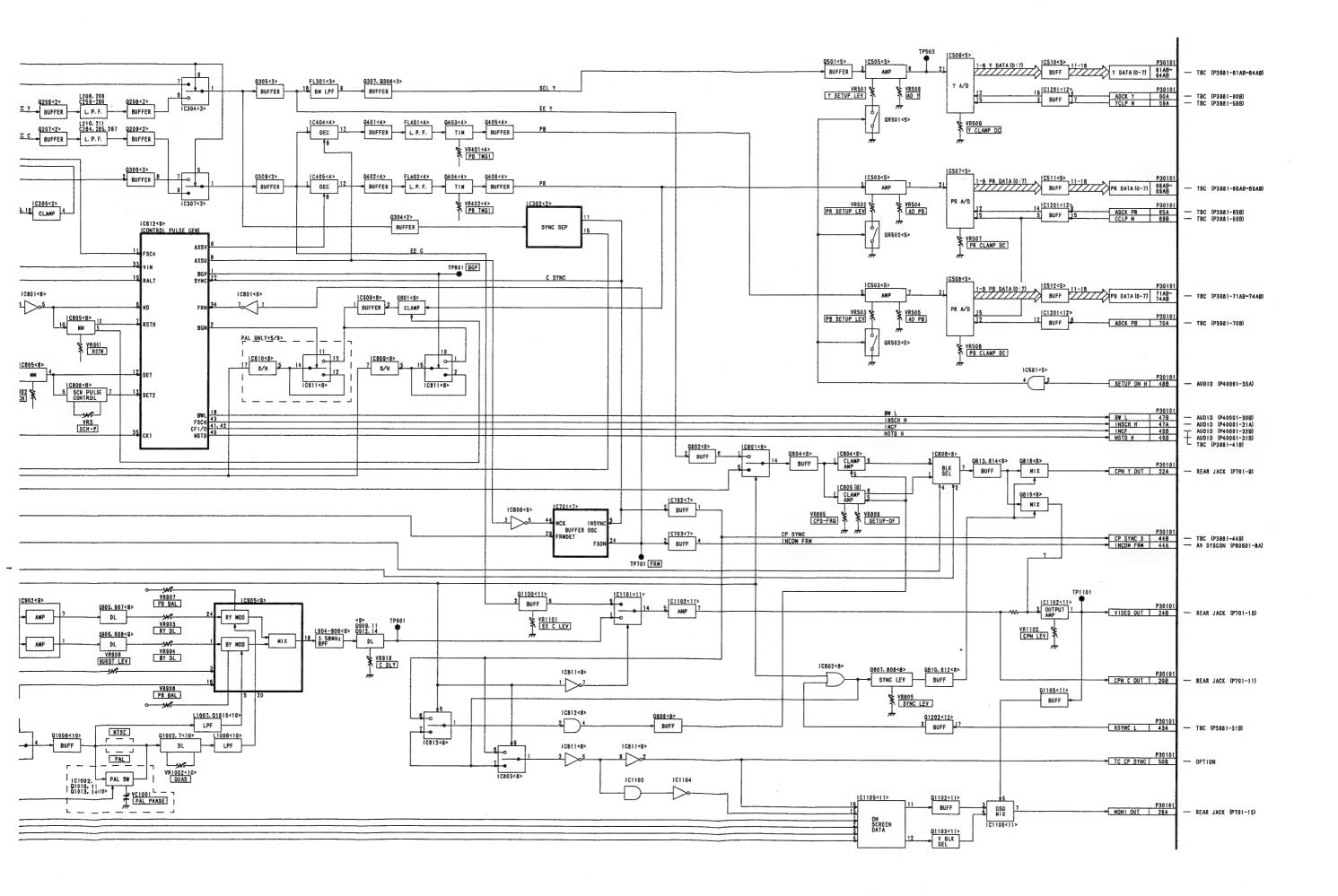




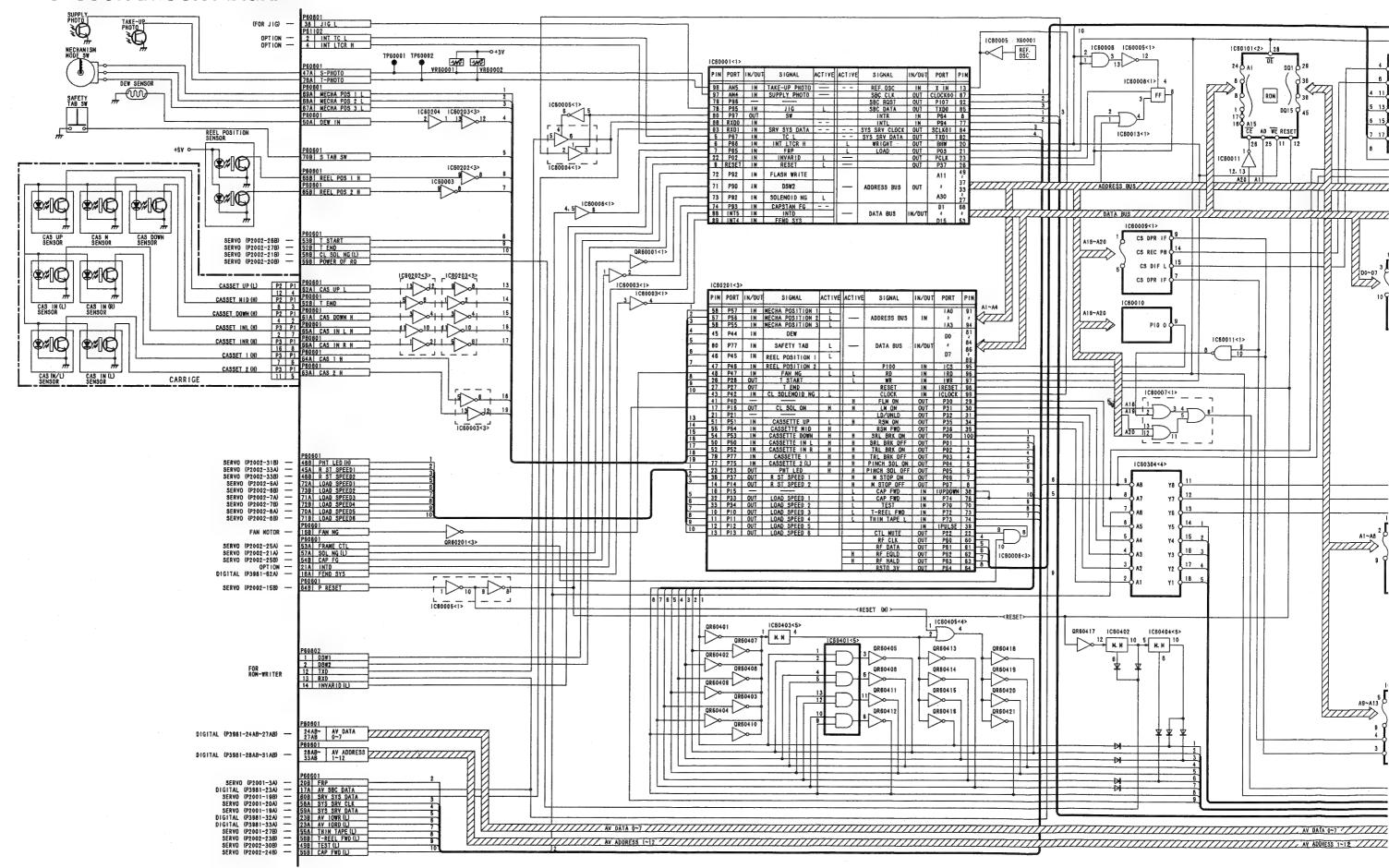


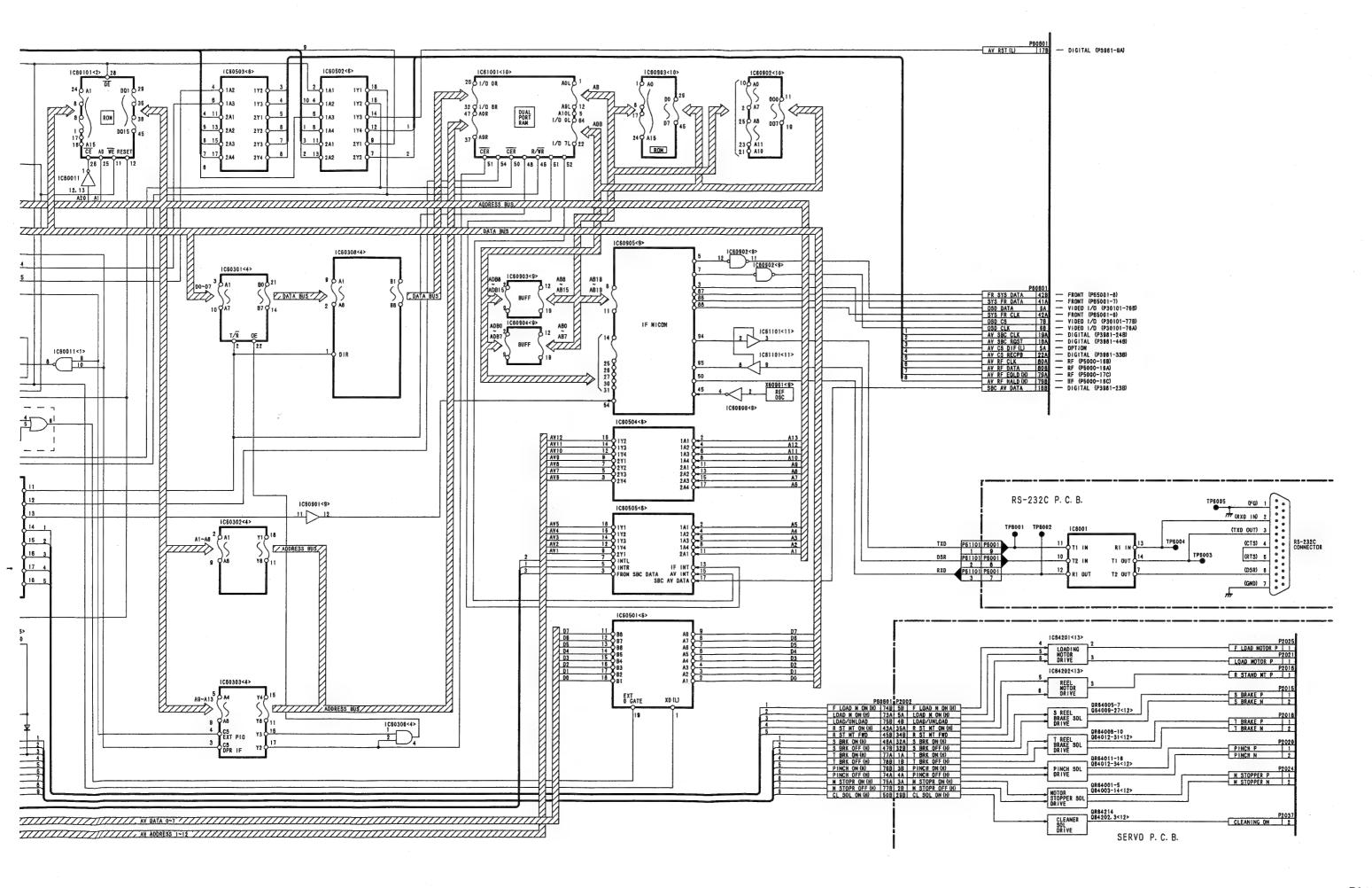
VIDEO I/O BLOCK DIAGRAM



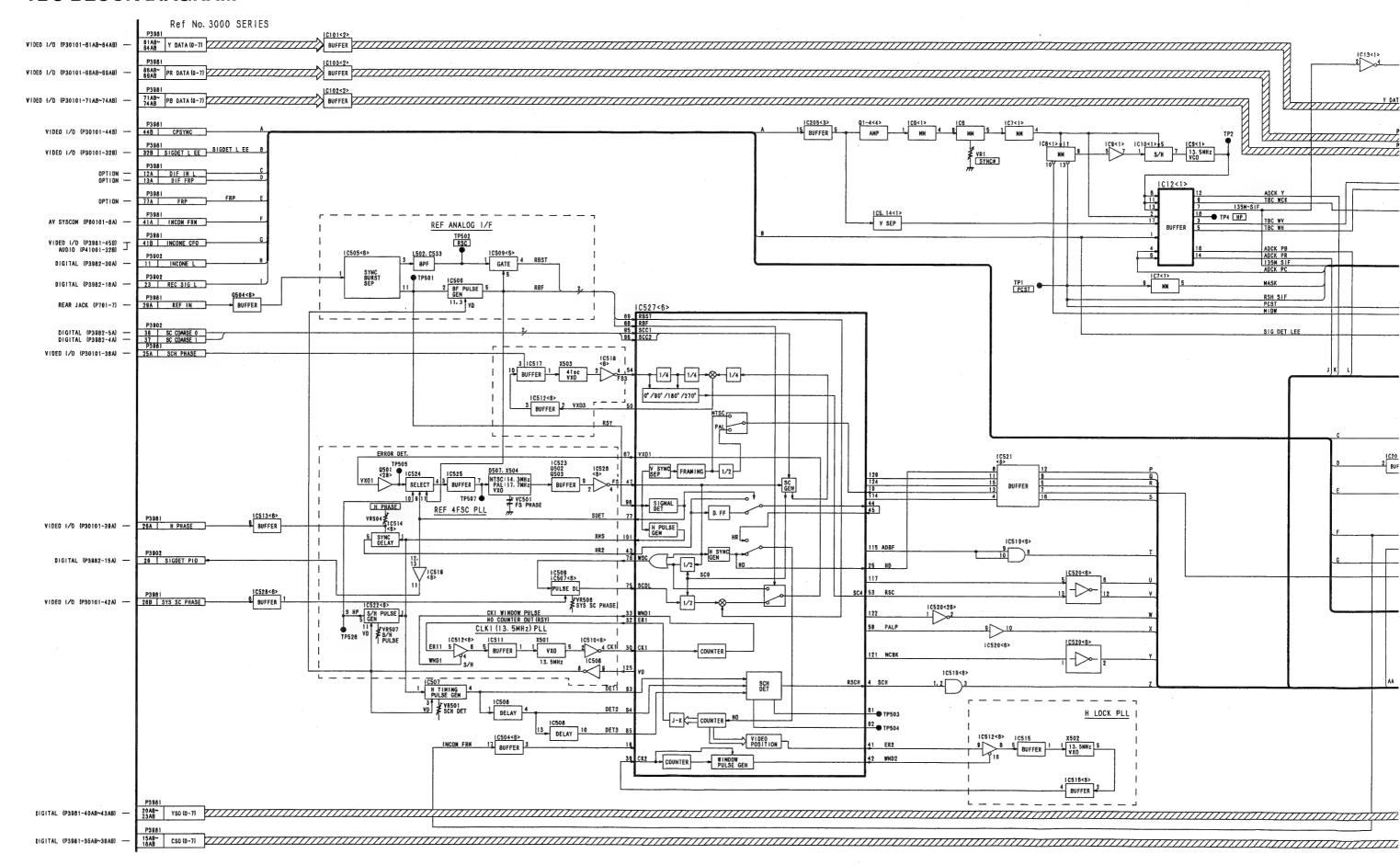


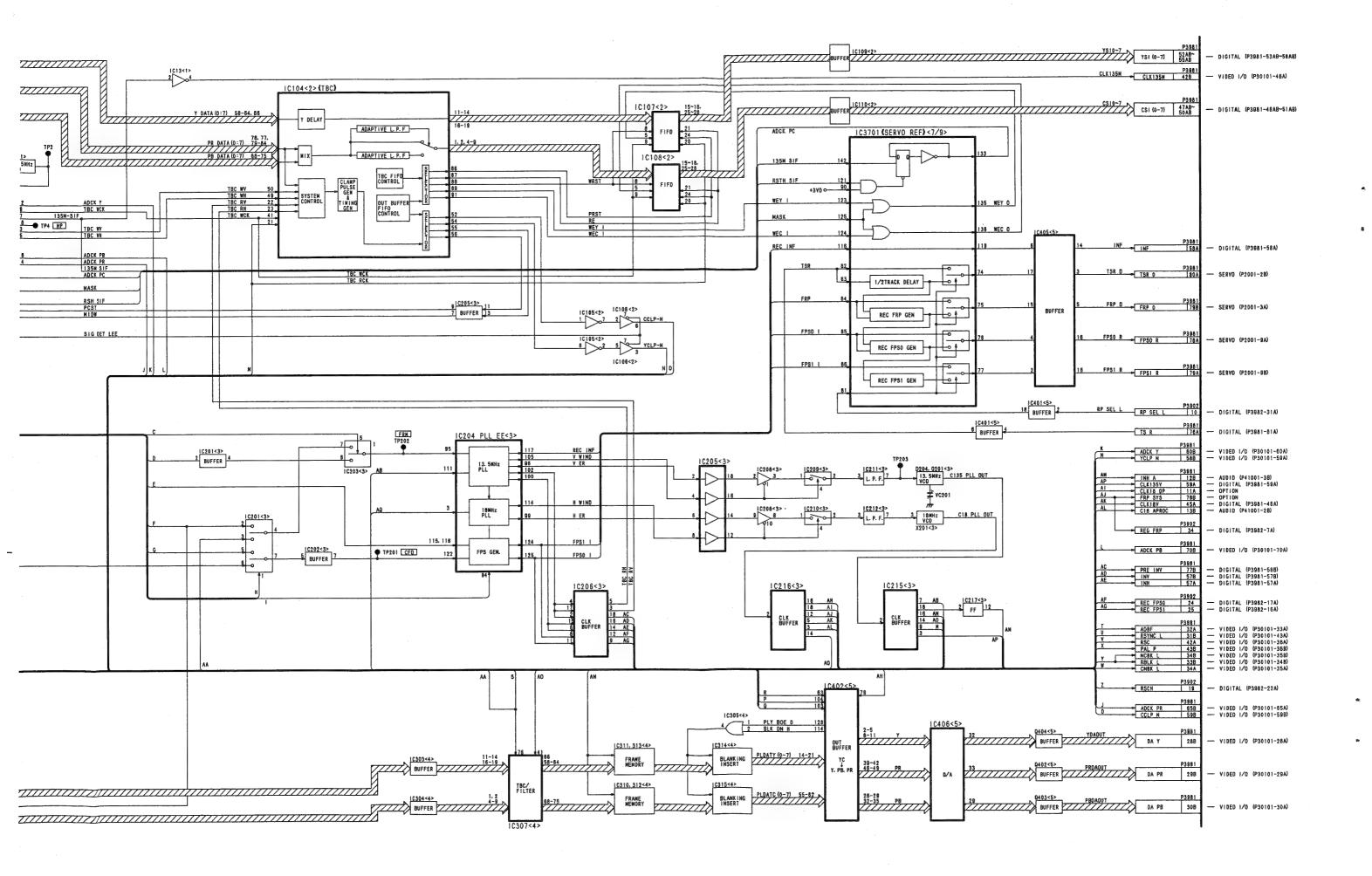
AV SYSCON BLOCK DIAGRAM





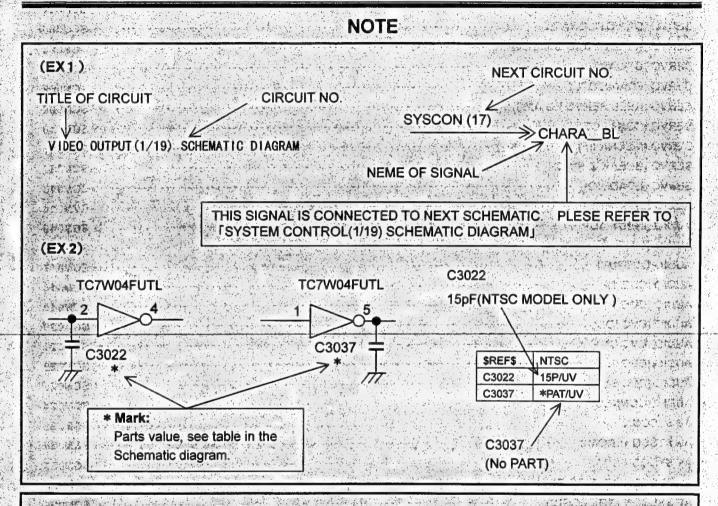
TBC BLOCK DIAGRAM





SCHEMATIC DIAGRAMS

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IMPORTANT SAFETY NOTICE

COMPONENTS IDENTIFIED WITH THE MARK A HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE SAME TYPE.

DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WASPREPARED.

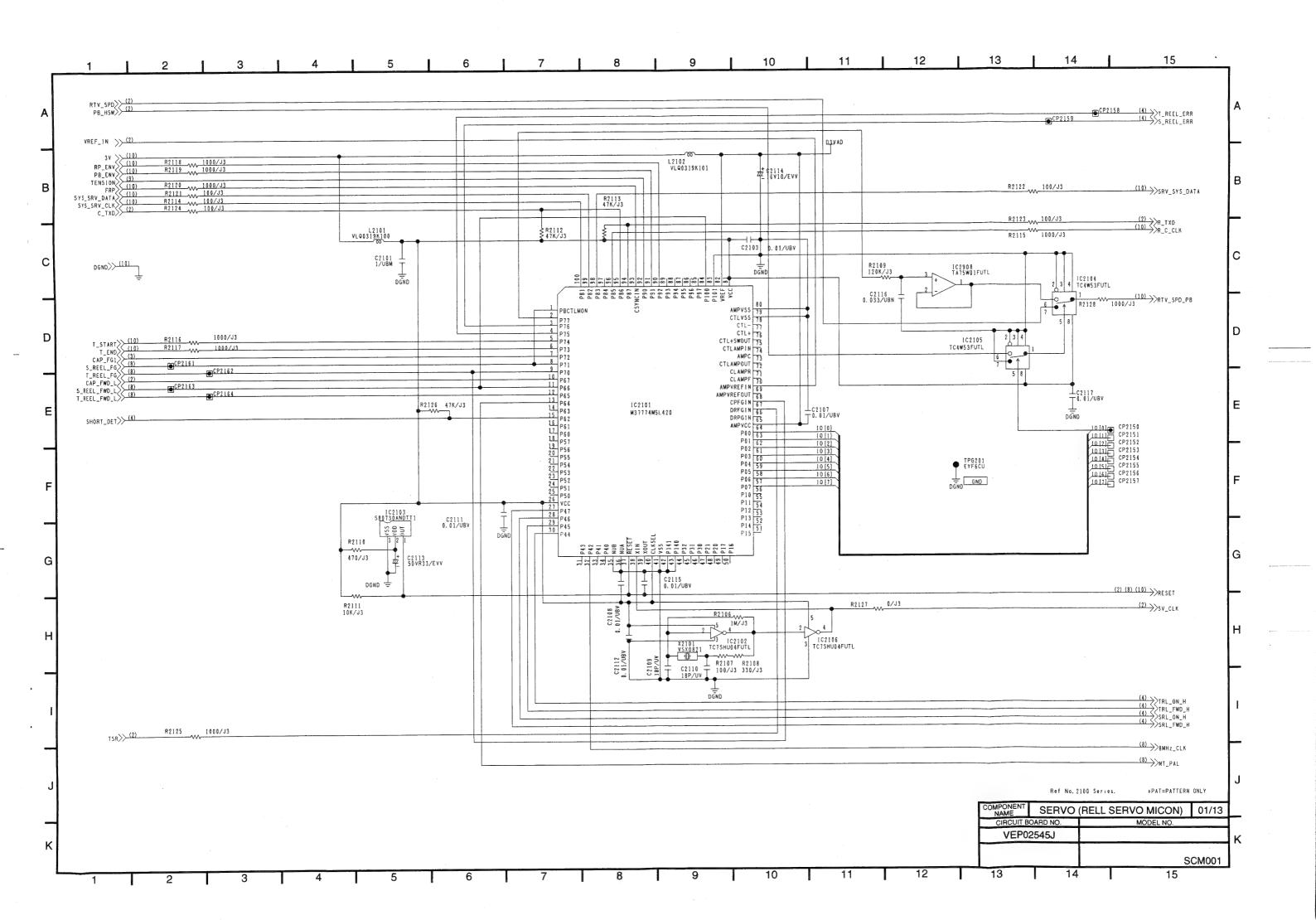
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新城 交		The state of the s	
THE MARK SECONDARY CIRCU		MARY CIRCUIT TO DIS	TINGUISH THE PRIMARY FROM THE
PAY ATTENTION NO	T RECEIVE AN ELECTR	IC SHOCK DURING REPAIR	R AND SERVICE OF THE PRODUCTS

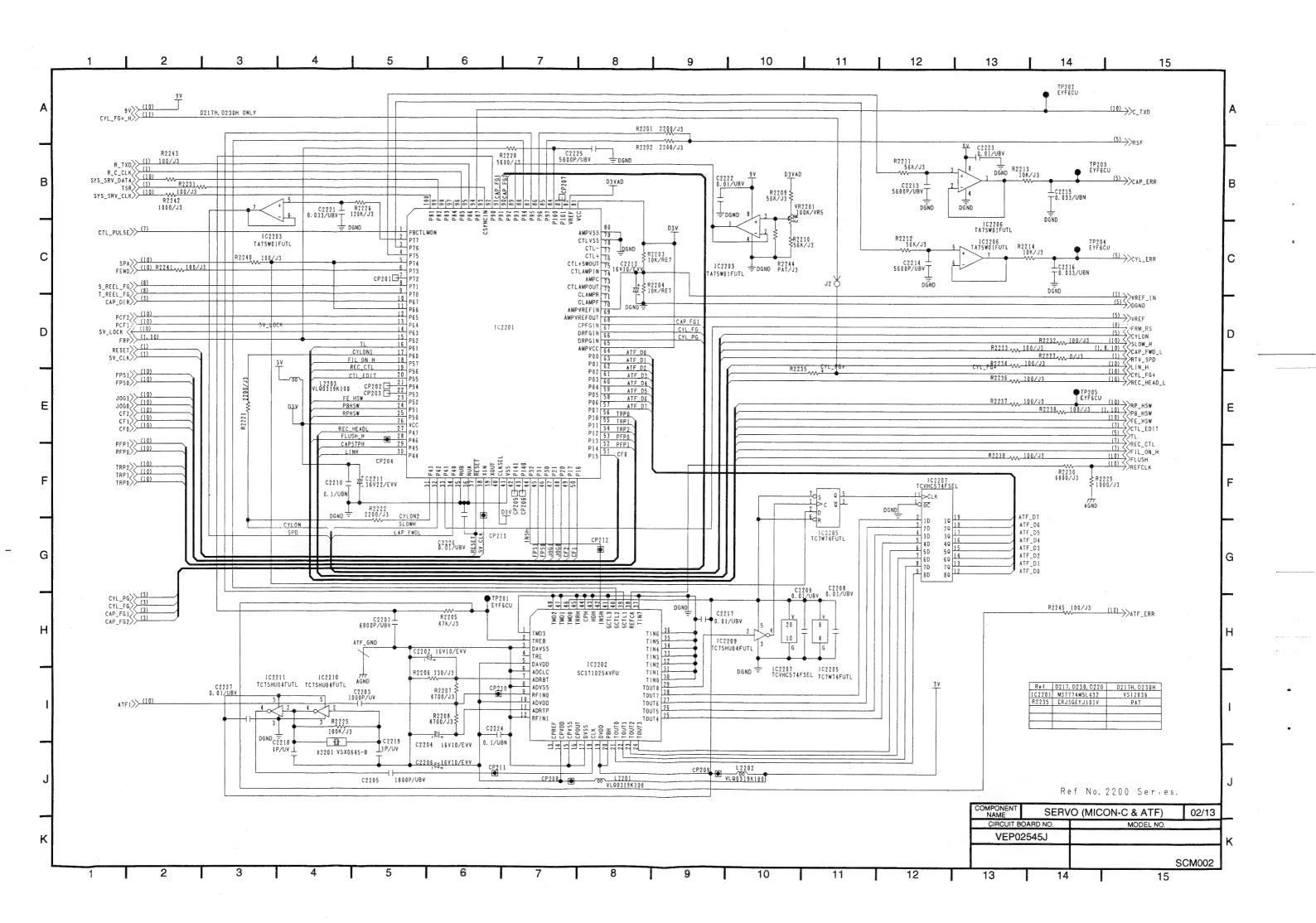
CONTENTS

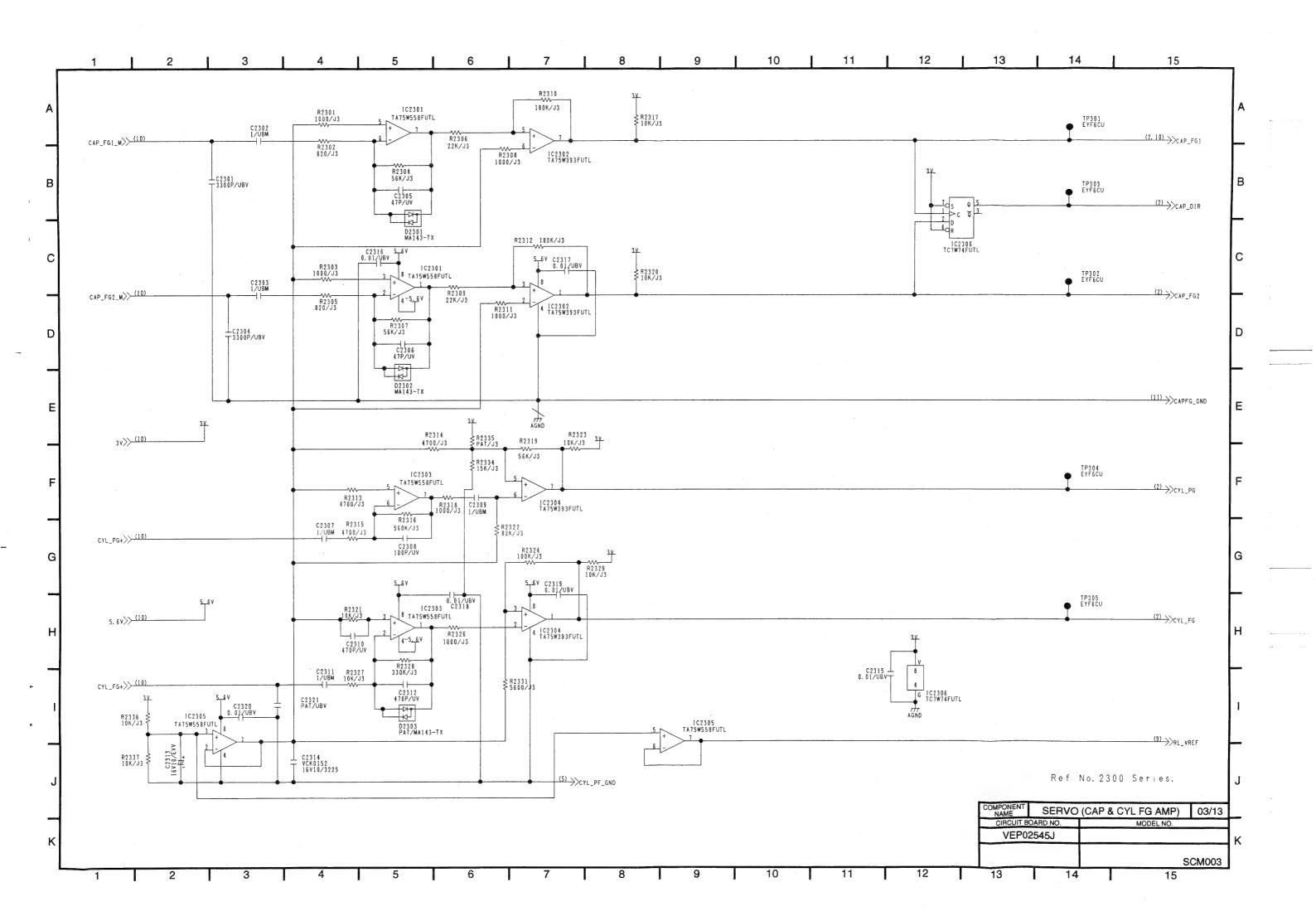
SERVO (RELL SERVO MICON)	SCM001
SERVO (MICON-C & ATF)	SCM002
SERVO (CAP & CYL FG AMP)	SCM003
SERVO (REEL SERVO DRIVE)	SCM004
SERVO (CAP/CYL DRIVE) · · · · · · · · · · · · · · · · · · ·	SCM005
SERVO (REEL SERVO SW POWER)	SCM006
SERVO (CTL AMP)	SCM007
SERVO (FRAME CTL)	SCM008
SERVO (REEL SERVO FG AMP)	SCM009
SERVO (CONNECT)	SCM010
SERVO (MECHA I/F)	SCM011
SERVO (BREAK & PINCH)	SCM012
SERVO (LOADING)	SCM013
AUDIO (CONTROL)	SCM014
AUDIO (INPUT AD)	SCM015
AUDIO (DA)	SCM016
AUDIO(OUTPUT)	SCM017
AUDIO (CUE 1)	SCM018
AUDIO (CUE 2)	SCM019
AUDIO (DVC IOB)	SCM020
AUDIO (DVC CNT)	SCM021
AUDIO (DVC PLL)	SCM022
AUDIO (DVC SYS)	SCM023
AUDIO (CONNECT)	SCM024
AV SYSCON (ROM)	SCM025
I AV SYSCON (ROM)	SCM026
AV SYSCON (PIO) AV SYSCON (EXT PIO DPR I/F)	SCM027
AV SYSCON (EXT PIO DPR I/F)	SCM028
AV SYSCON (SOL LOGIC)	SCM029
AV SYSCON (BUS I/F)	SCM030
AV SYSCON (MOTHER CONNECT)	
AV SYSCON (JIG I/F)	SCM032
AV SYSCON (I/F MICON)	SCM033
AV SYSCON (IF MEMORY)	SCM034-
AV SYSCON(OPTION BOARD)	SCM035
VIDEO I/O(CONNECTOR)	SCM036
VIDEO I/O(Y/C SEP)	SCM037
VIDEO I/O(CONNECTOR) VIDEO I/O(Y/C SEP) VIDEO I/O(SYNC SEP) VIDEO I/O(C DECODER) VIDEO I/O(ADC) VIDEO I/O(PLL & CF DET)	SCM038
VIDEO I/O(C DECODER)	SCM039
VIDEO I/O(ADC)	SCM040
VIDEO I/O(PLL & CF DET) VIDEO I/O(BUFF OSC)	SCM041
VIDEO I/O(BUFF OSC) ····································	SCM042
VIDEO I/O(Y OUT)	SCM043

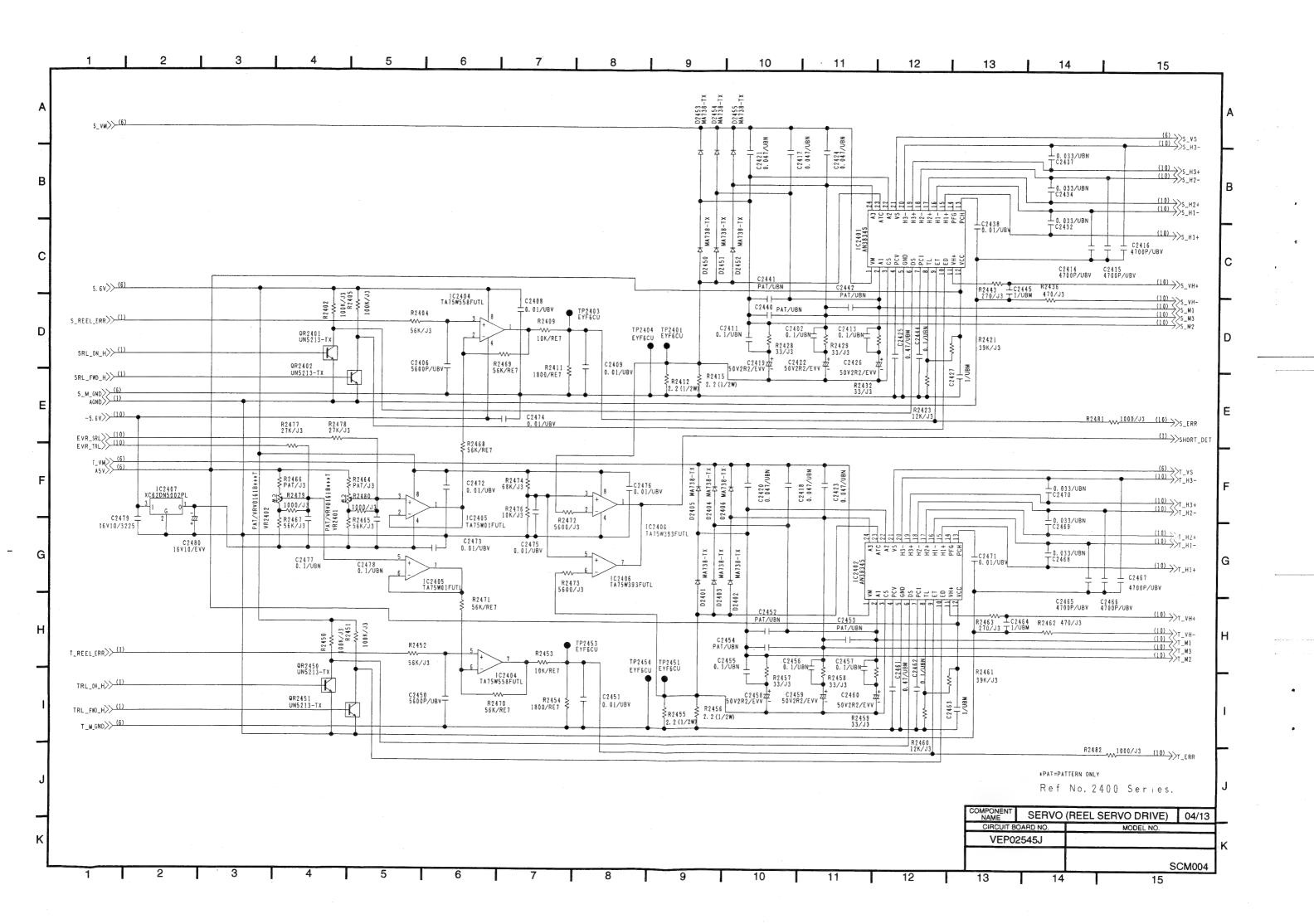
VIDEO I/O(ENCODER)	SCM044
VIDEO I/O(SC QUADRATURE) ·····	SCM045
VIDEO I/O(VIDEO OUT)	SCM046
VIDEO I/O(EVR DAC) ·····	SCM047
TBC(13.5M PLL) · · · · · · · · · · · · · · · · · ·	SCM048
TBC(INPUT TBC)	SCM049
TBC(PLL EE) ·····	SCM050
TBC(OUTPUT TBC)	SCM051
TBC(OUTPUT BUFFER)	SCM052
TBC(SYNC GEN)	SCM053
TBC(INTERFACE)	SCM054
DIGITAL CORE(PRE SHUFFLE)	SCM055
DIGITAL CORE(CLK BUFF)	SCM056
DIGITAL CORE(SHUFFLE)	SCM057
DIGITAL CORE(COMP/AUDIO)	SCM058
DIGITAL CORE(ECC) · · · · · · · · · · · · · · · · · ·	SCM059
DIGITAL CORE(DCI) · · · · · · · · · · · · · · · · · · ·	SCM060
DIGITAL CORE(VIDEO DATA) · · · · · · · · · · · · · · · · · · ·	SCM061
DIGITAL CORE(PIO) · · · · · · · · · · · · · · · · · · ·	SCM062
DIGITAL CORE(SBC) · · · · · · · · · · · · · · · · · · ·	SCM063
DIGITAL CORE(TAPE CTL) · · · · · · · · · · · · · · · · · · ·	SCM064
DIGITAL CORE(SV I/O) ·····	SCM065
DIGITAL CORE(I/F) ·····	SCM066
MOTHER	SCM067
MOTHER ·····	SCM068
MOTHER	SCM069
MOTHER ·····	SCM070
RF(REC DRIVER) ·····	SCM071
RF(RE DRIVER)	SCIVIU/2
RF(HEAD AMP) ·····	SCM073
RF(PRE EQ ; ENV DET) ······	SCM074
RF(AGC; EQ) ·····	SCM075
RF(VTB) ·····	SCM076
RF(EVR) ·····	SCM077
RF(PIO)	SCM078
RF(MOTHER)	SCM079
POWER 1 ····	SCM080
POWER 2	SCM081
FRONT	SCM082
FRONT ·····	SCM083
REAR JACK ·····	SCM084
RS-232C ····	SCM085
REMOTE ·····	

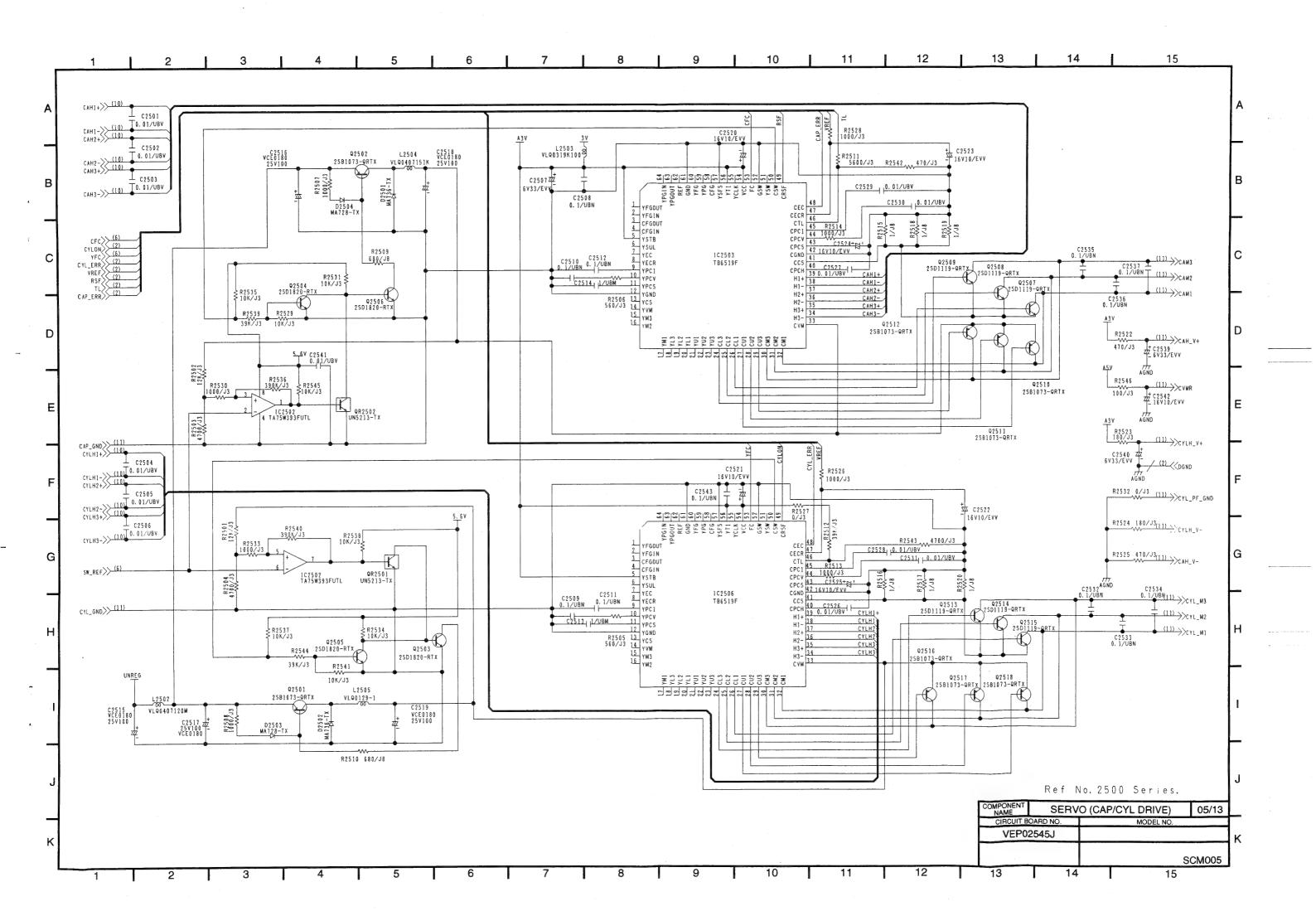
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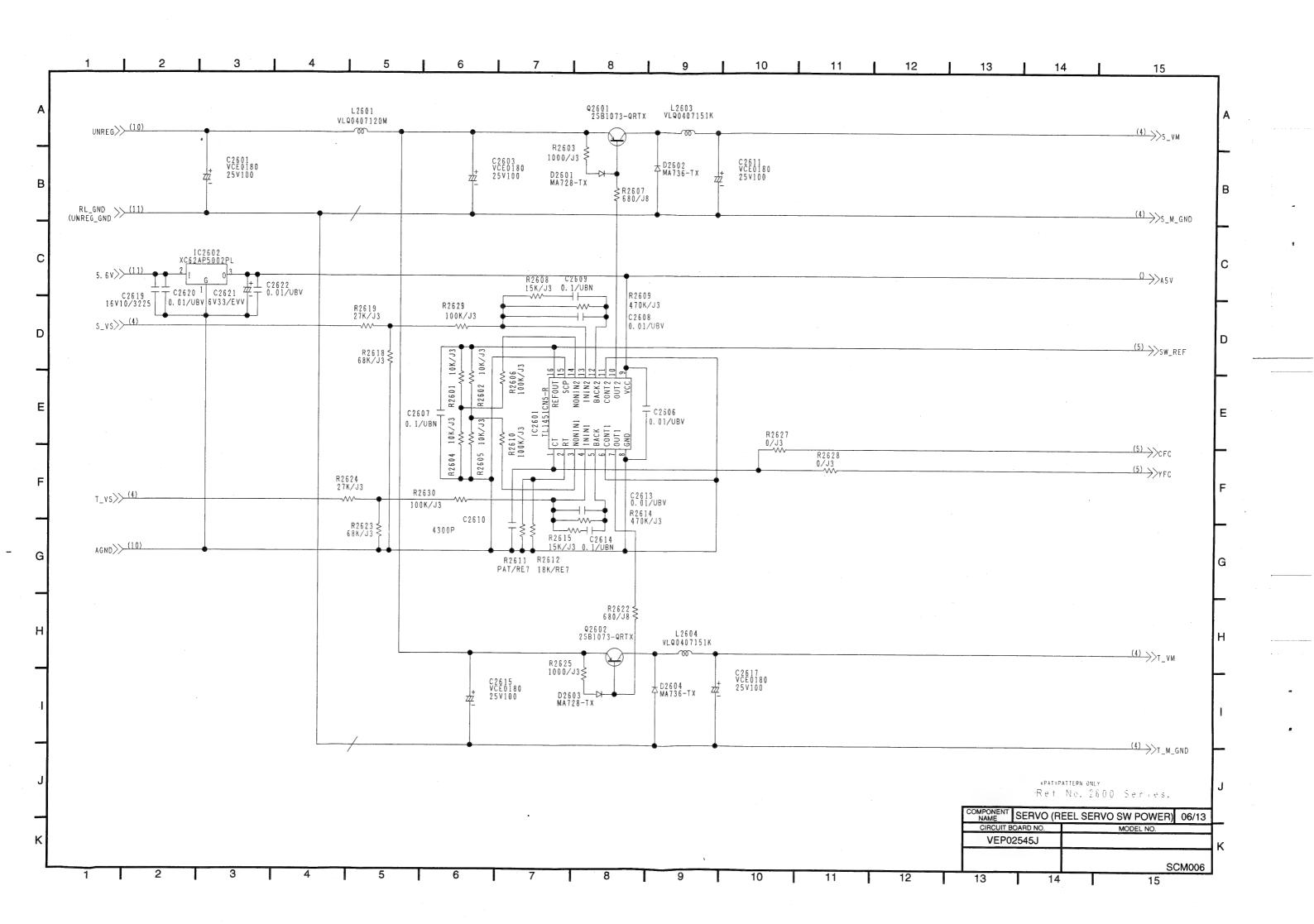


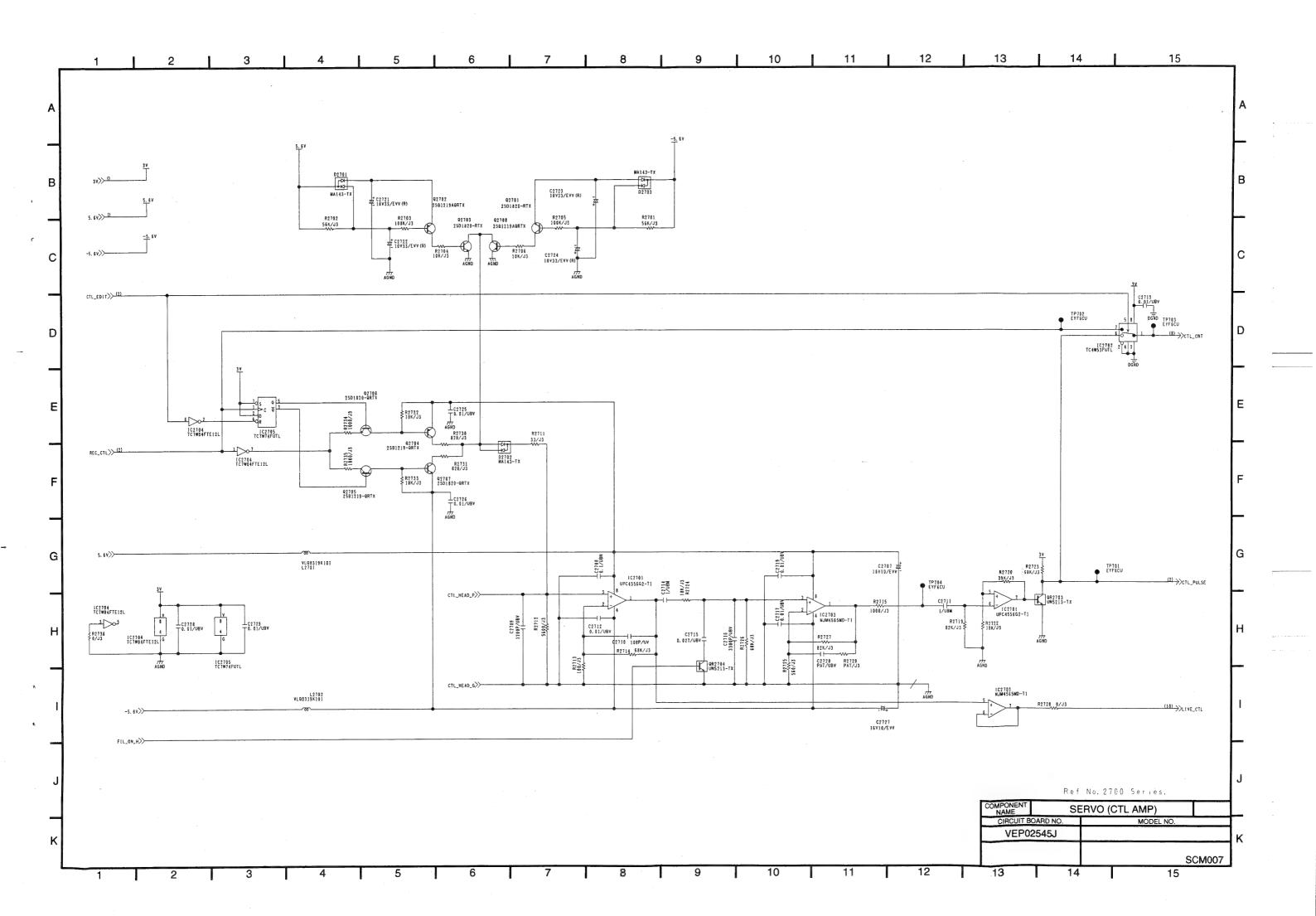


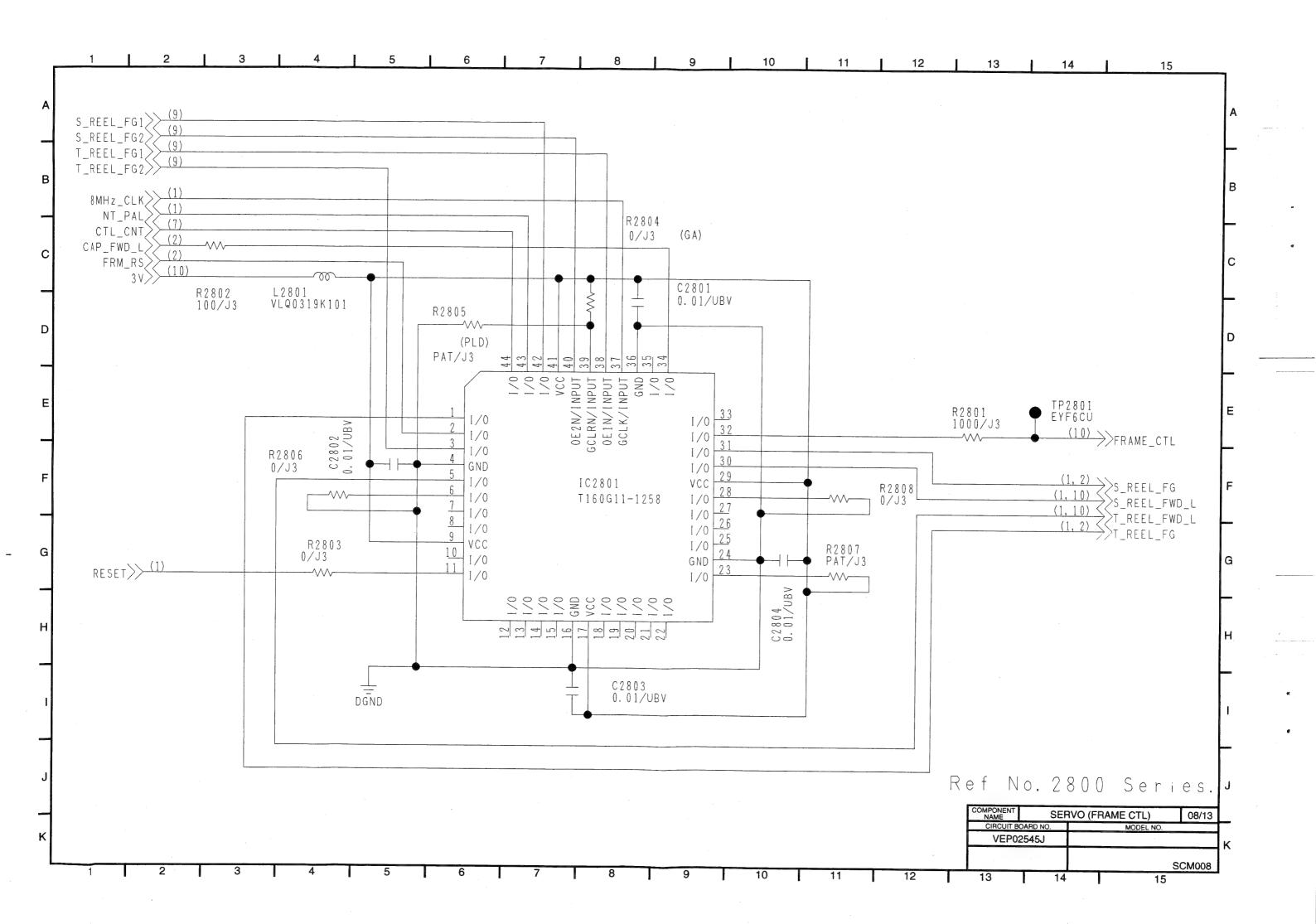


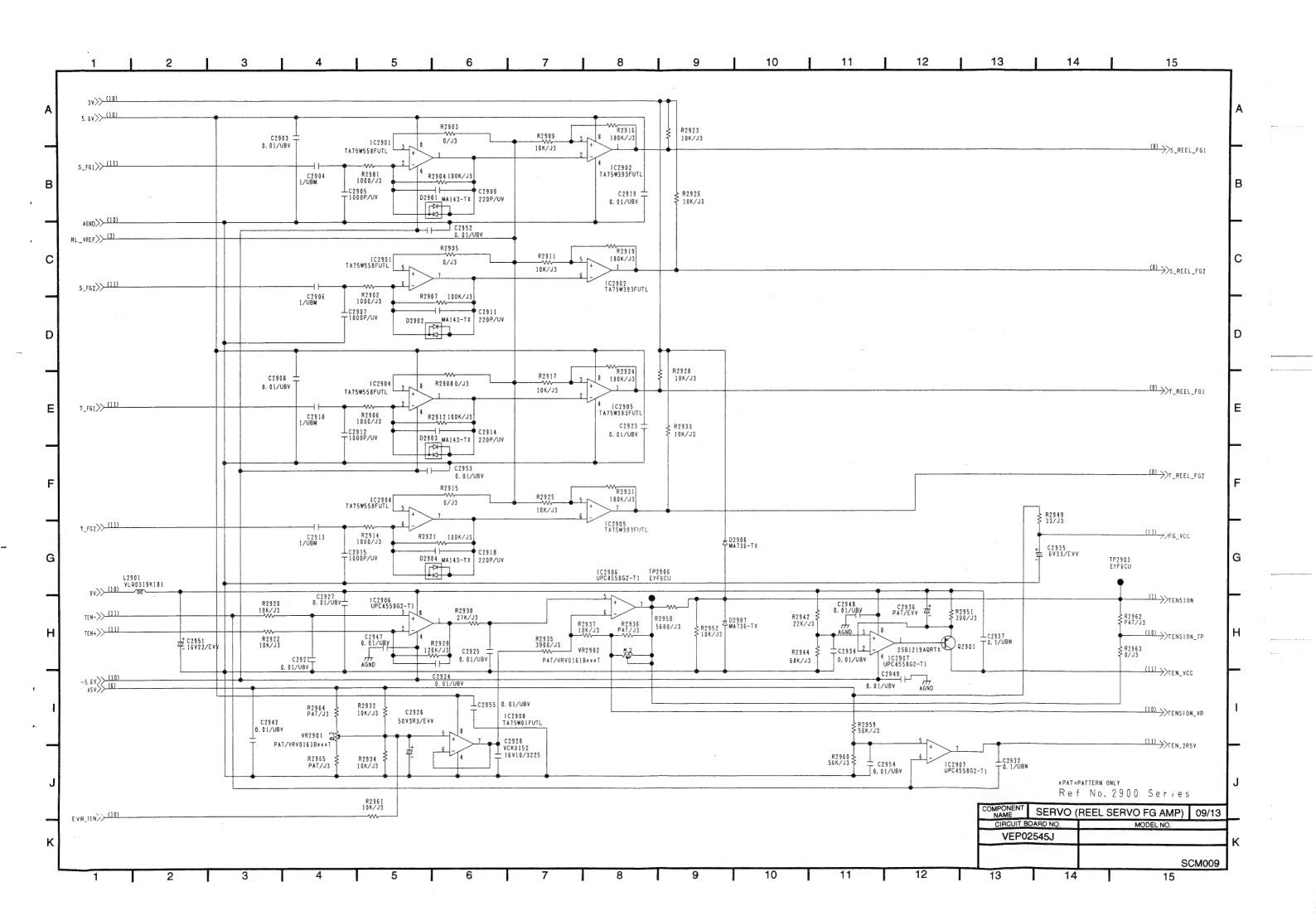


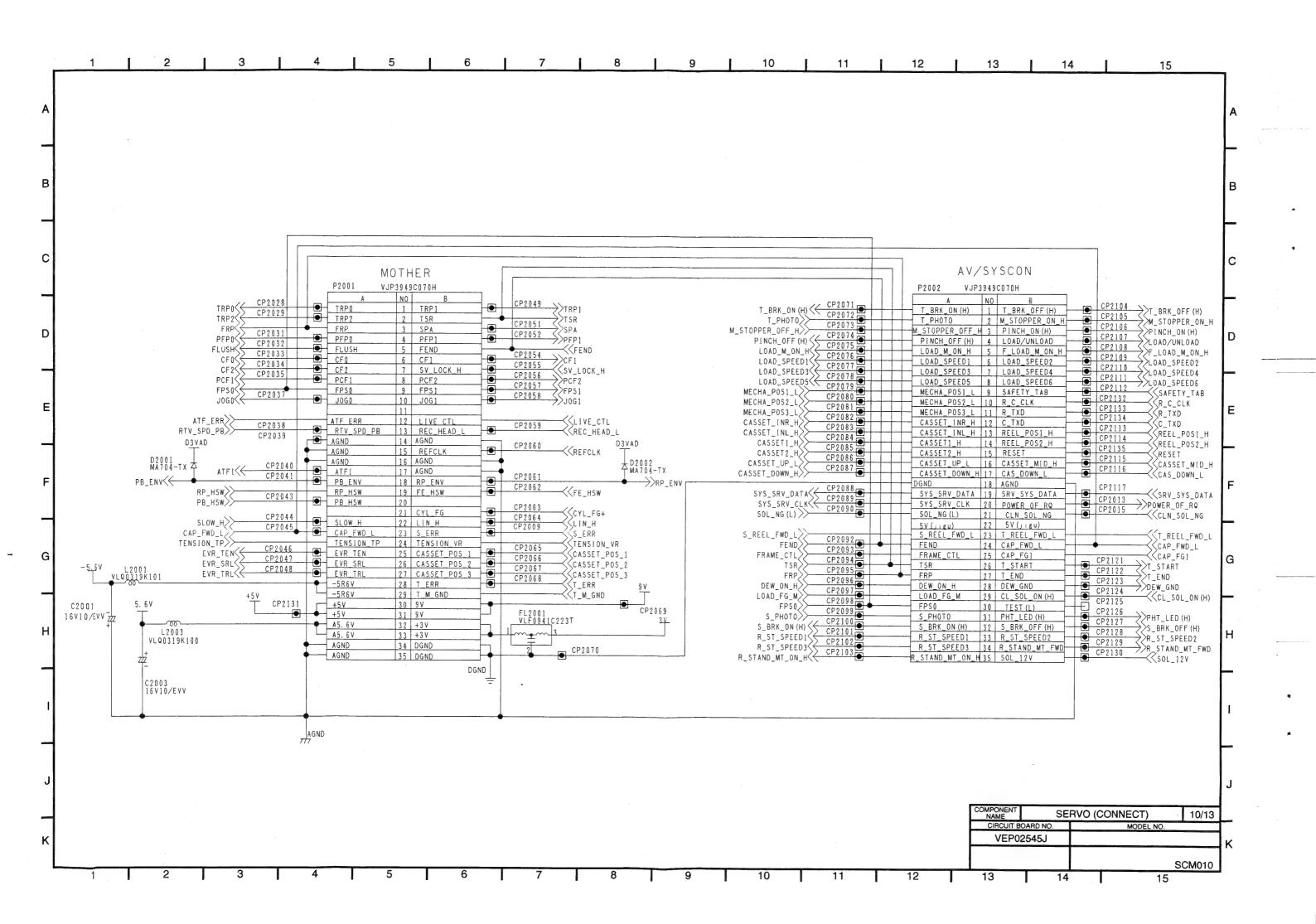


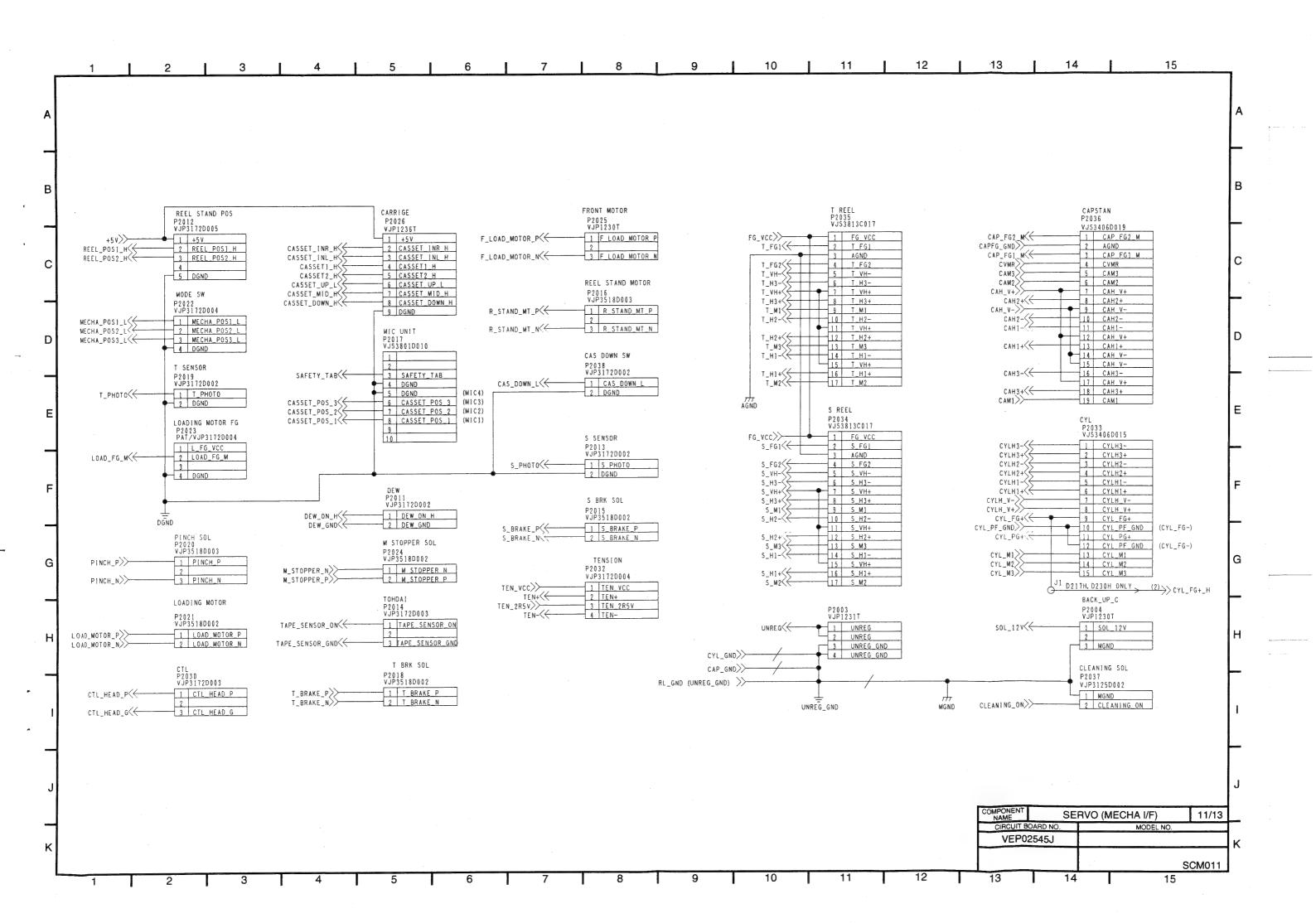


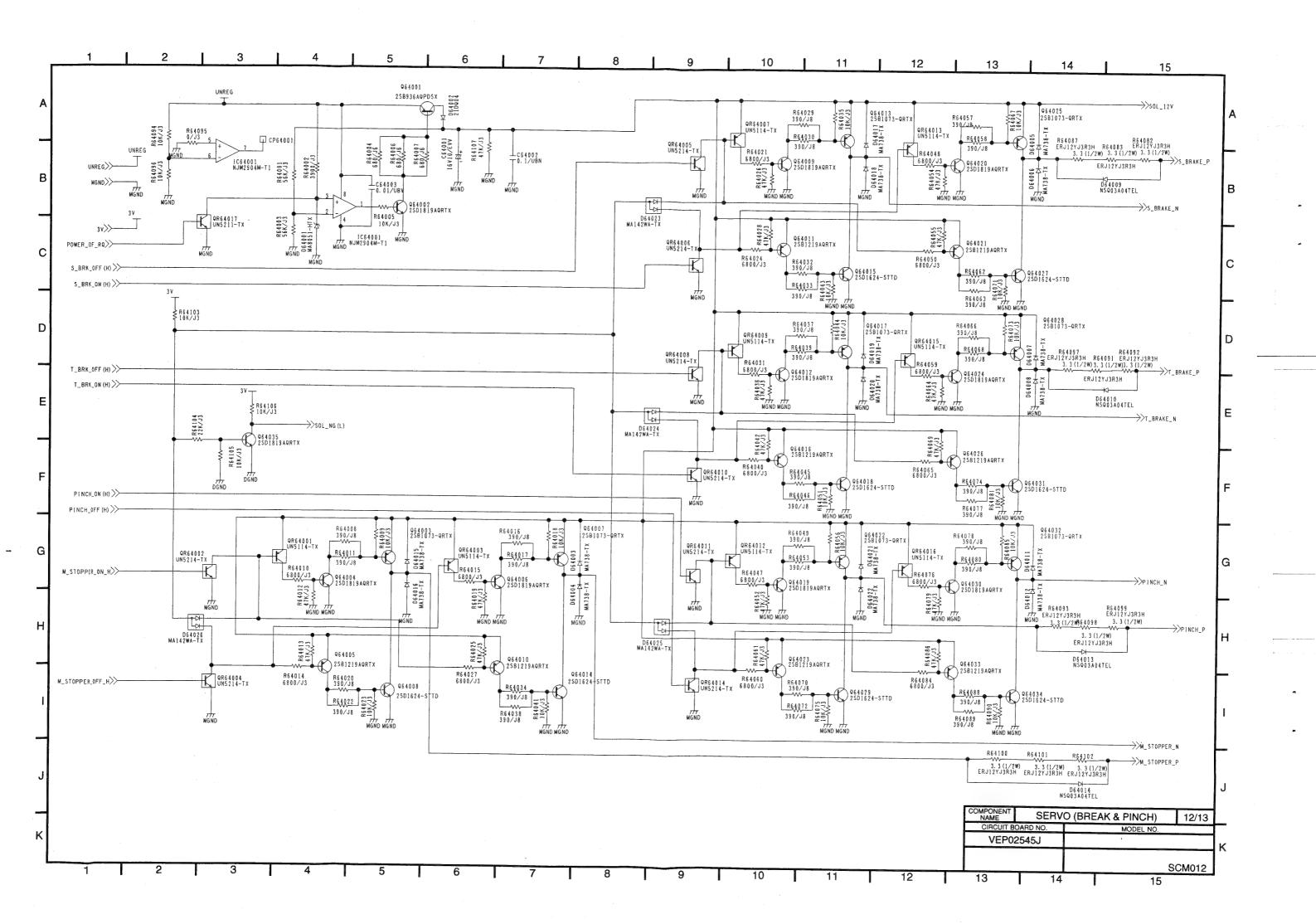


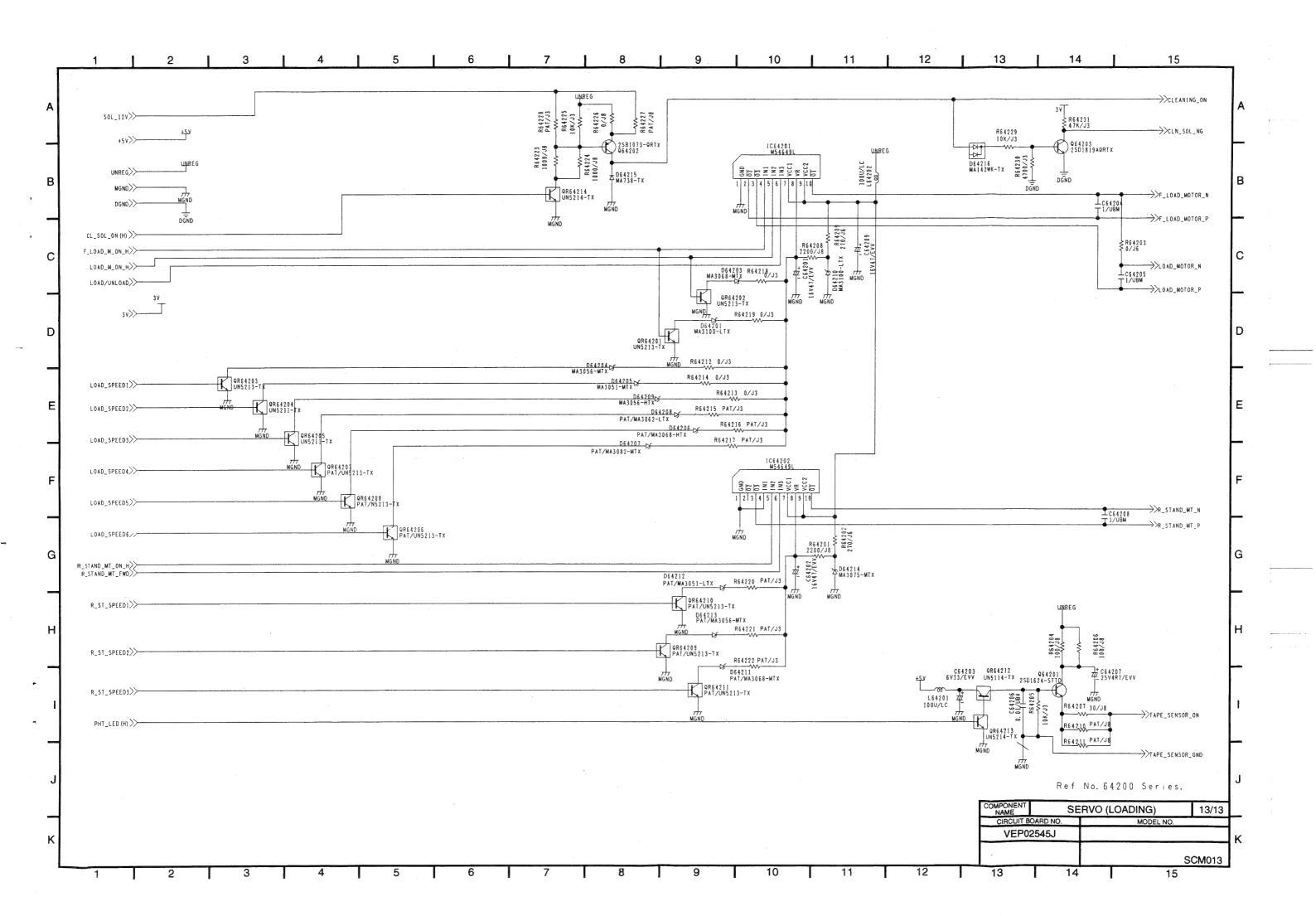


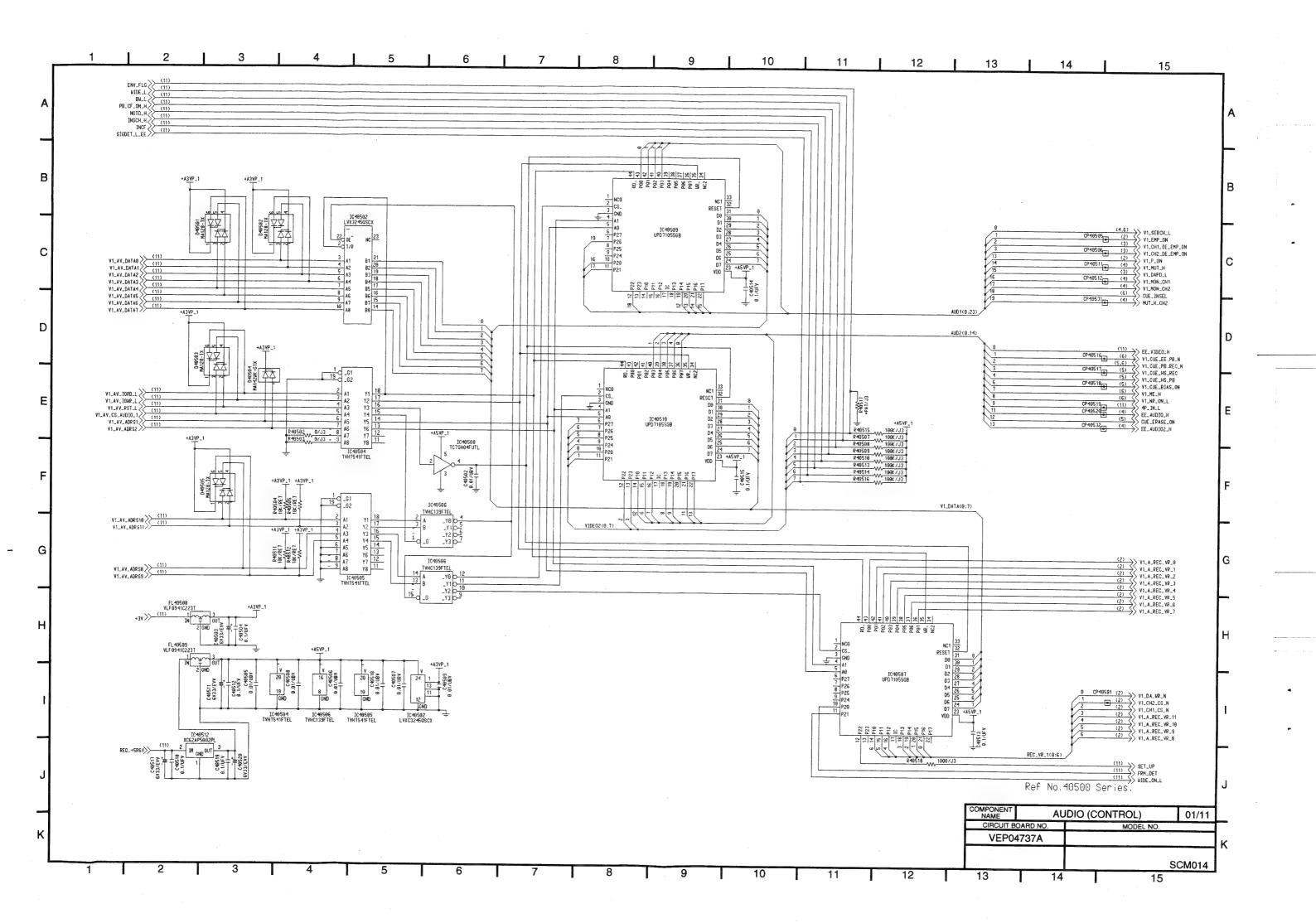


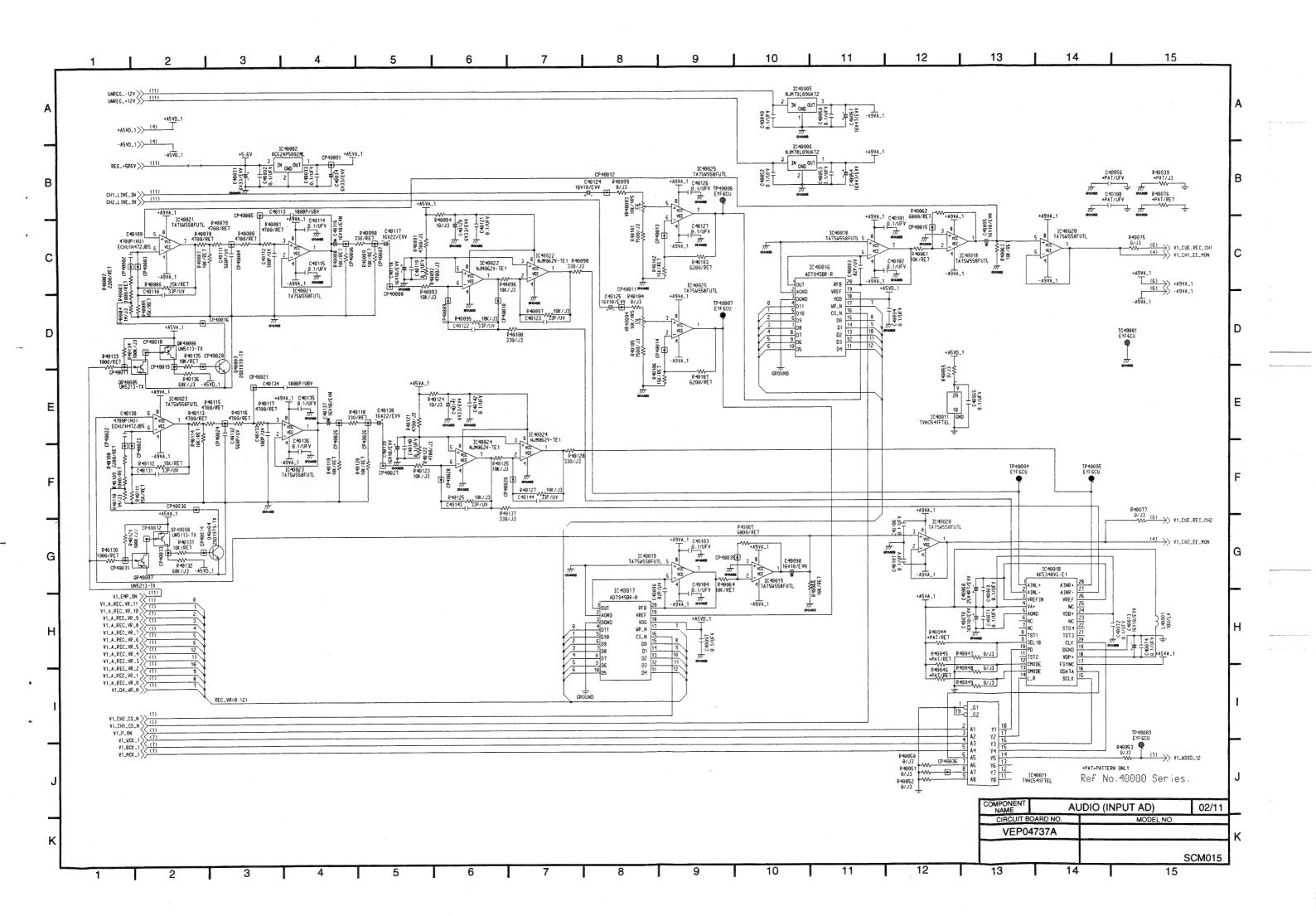


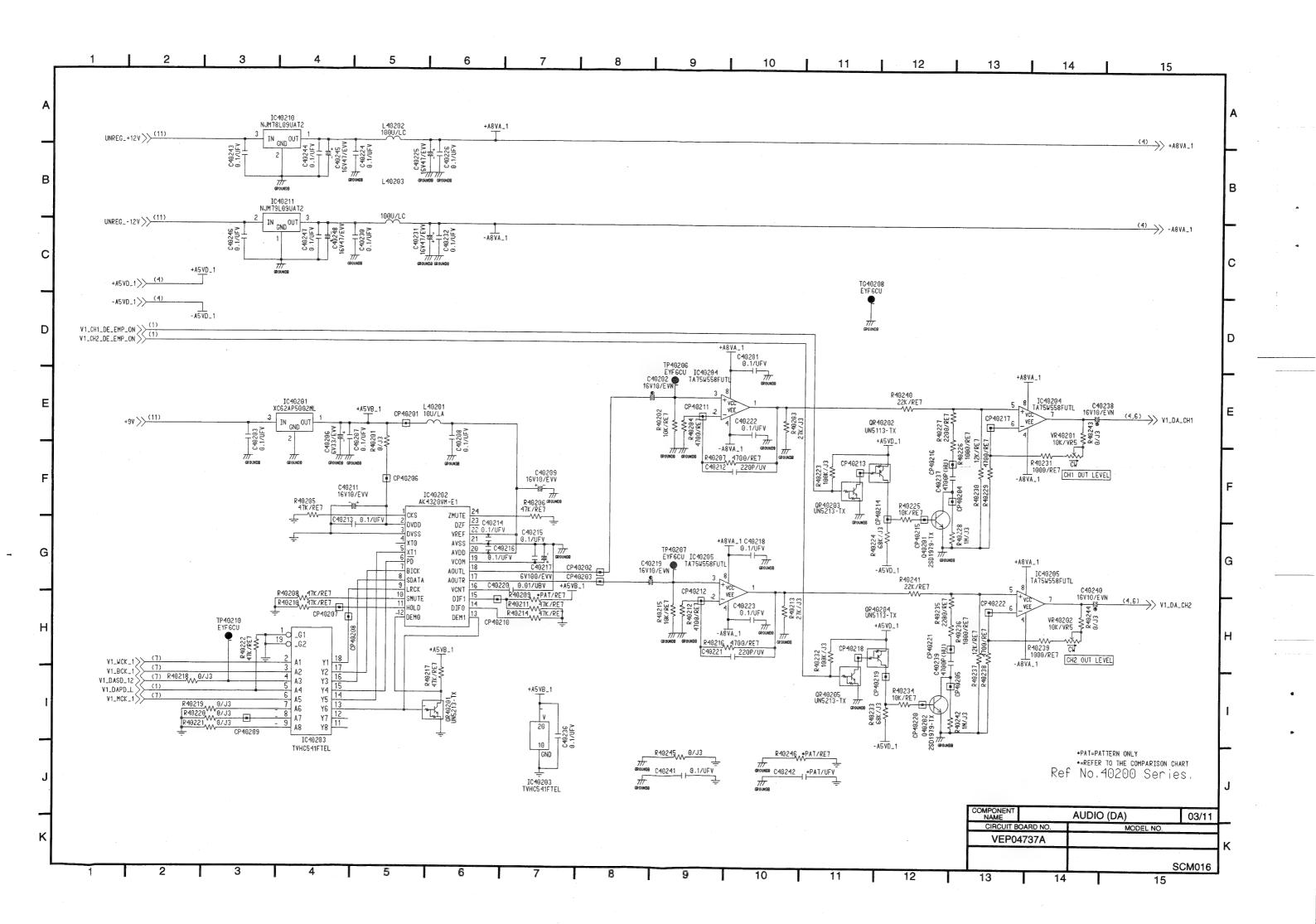


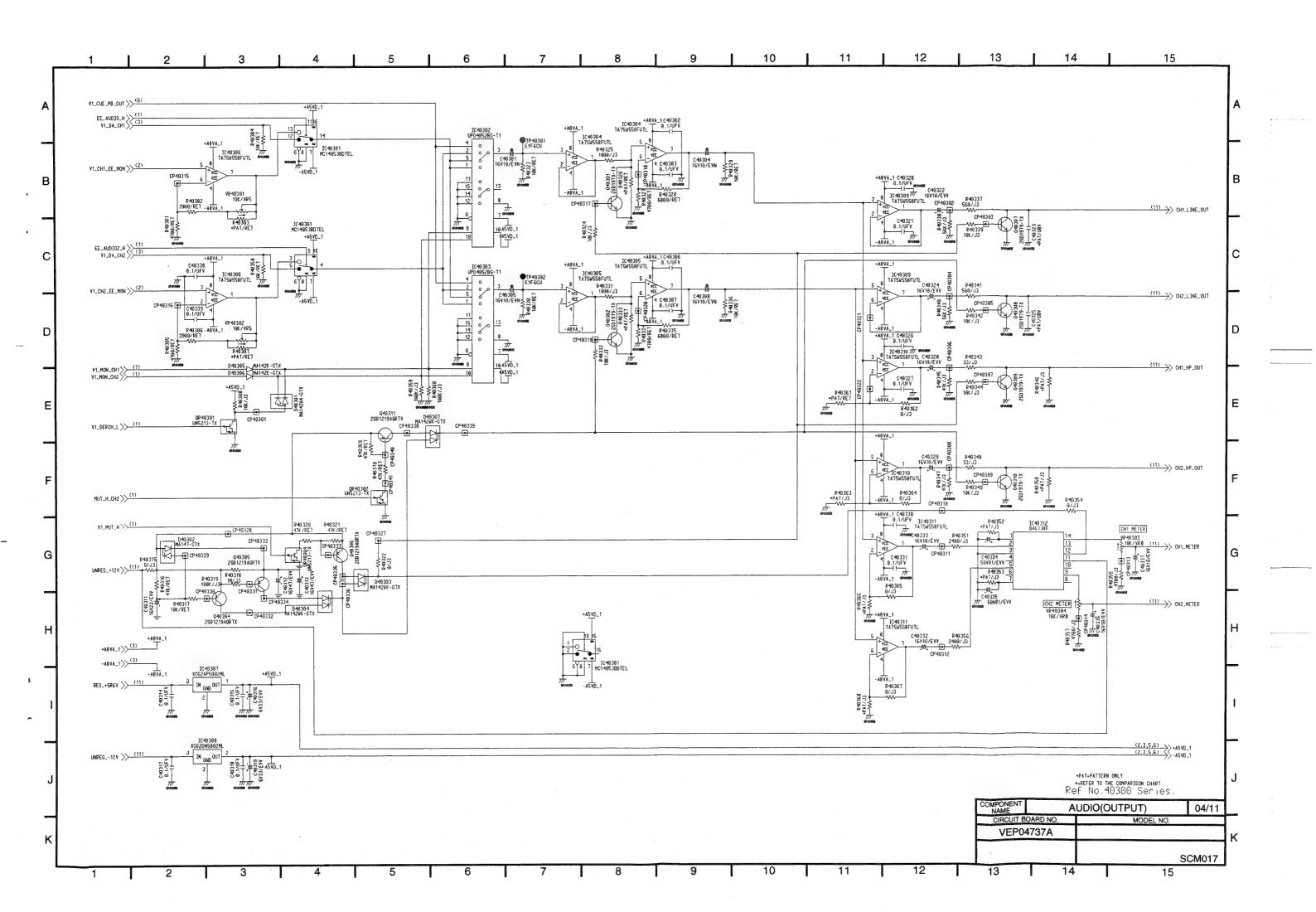


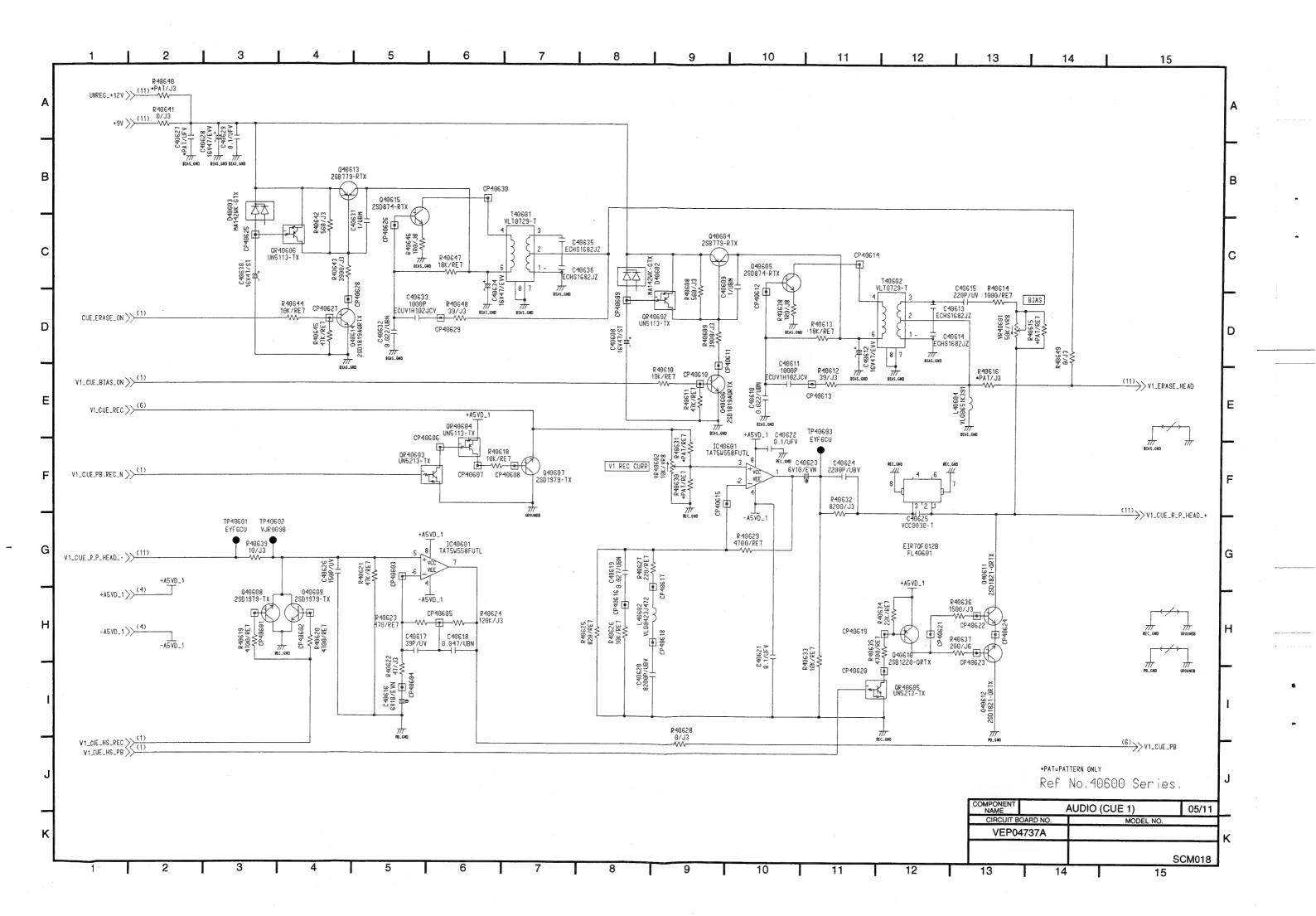


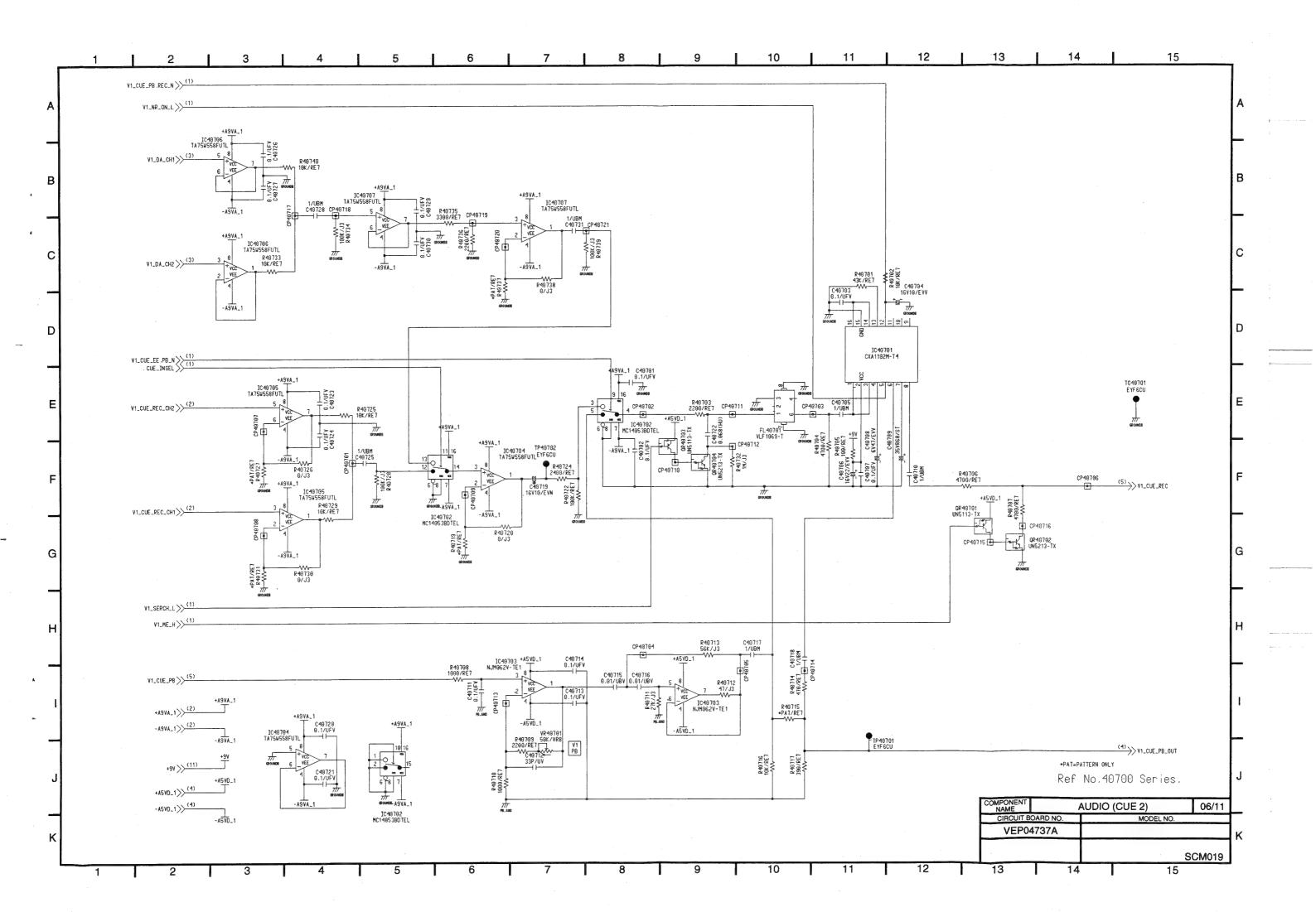


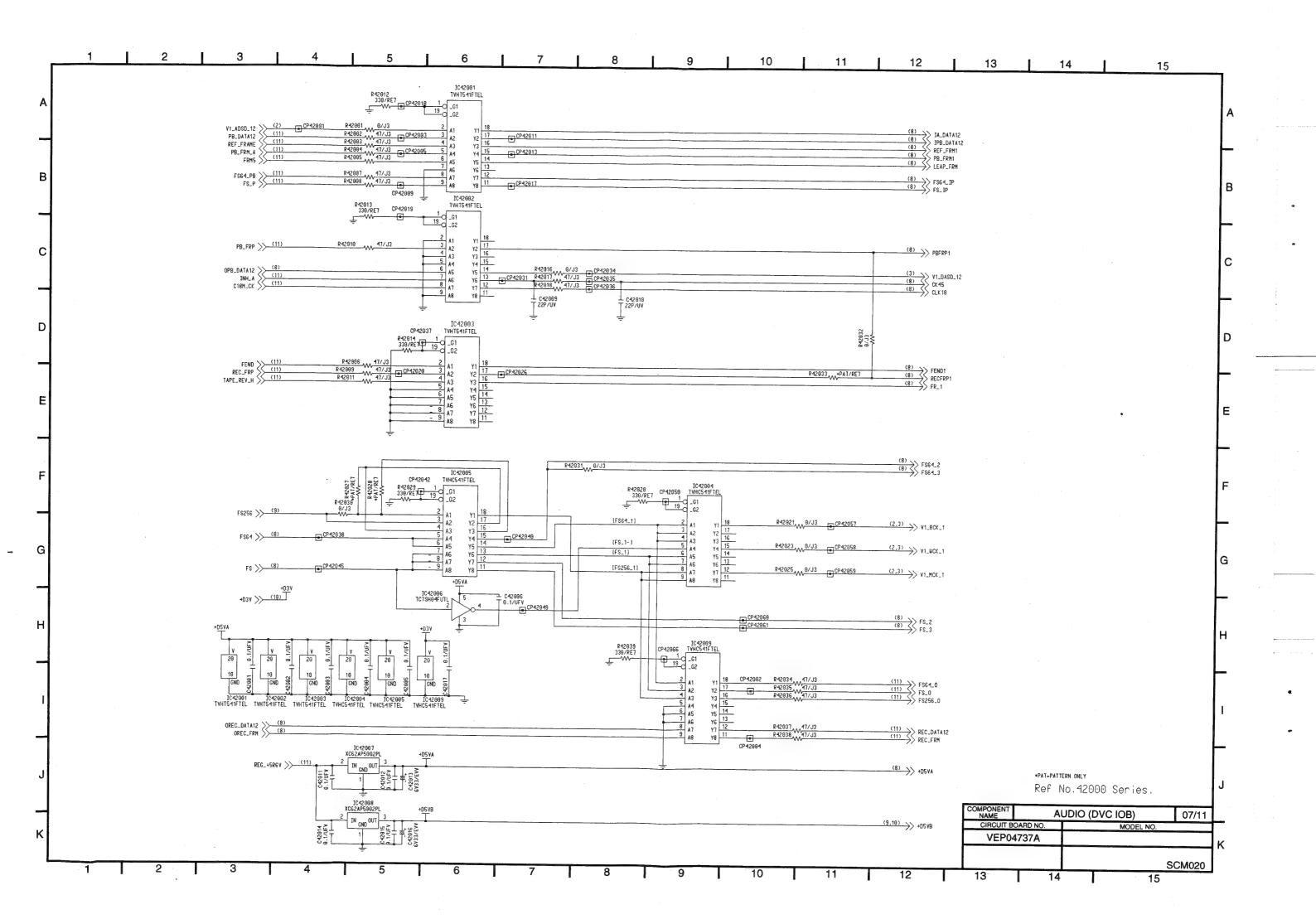


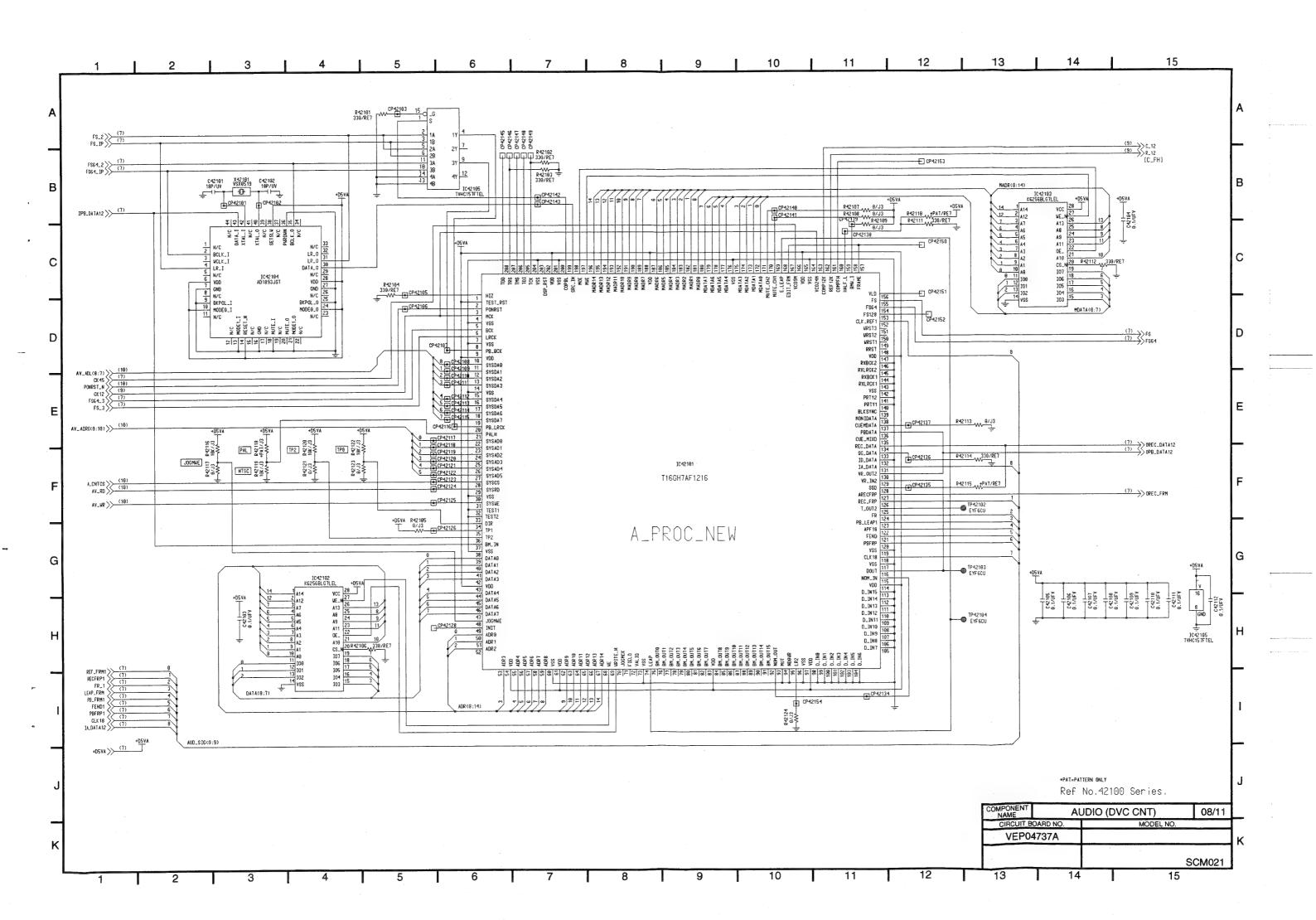


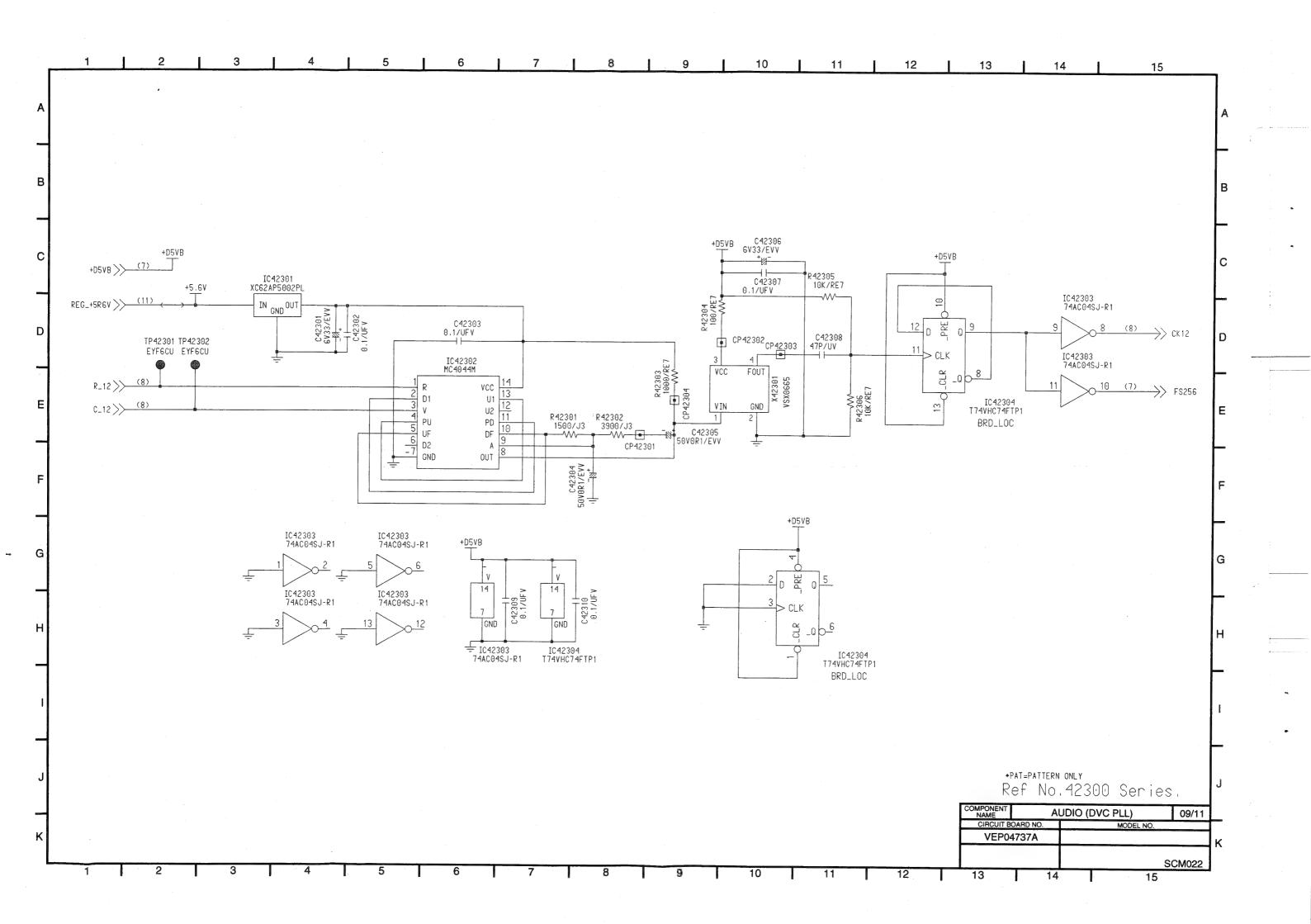


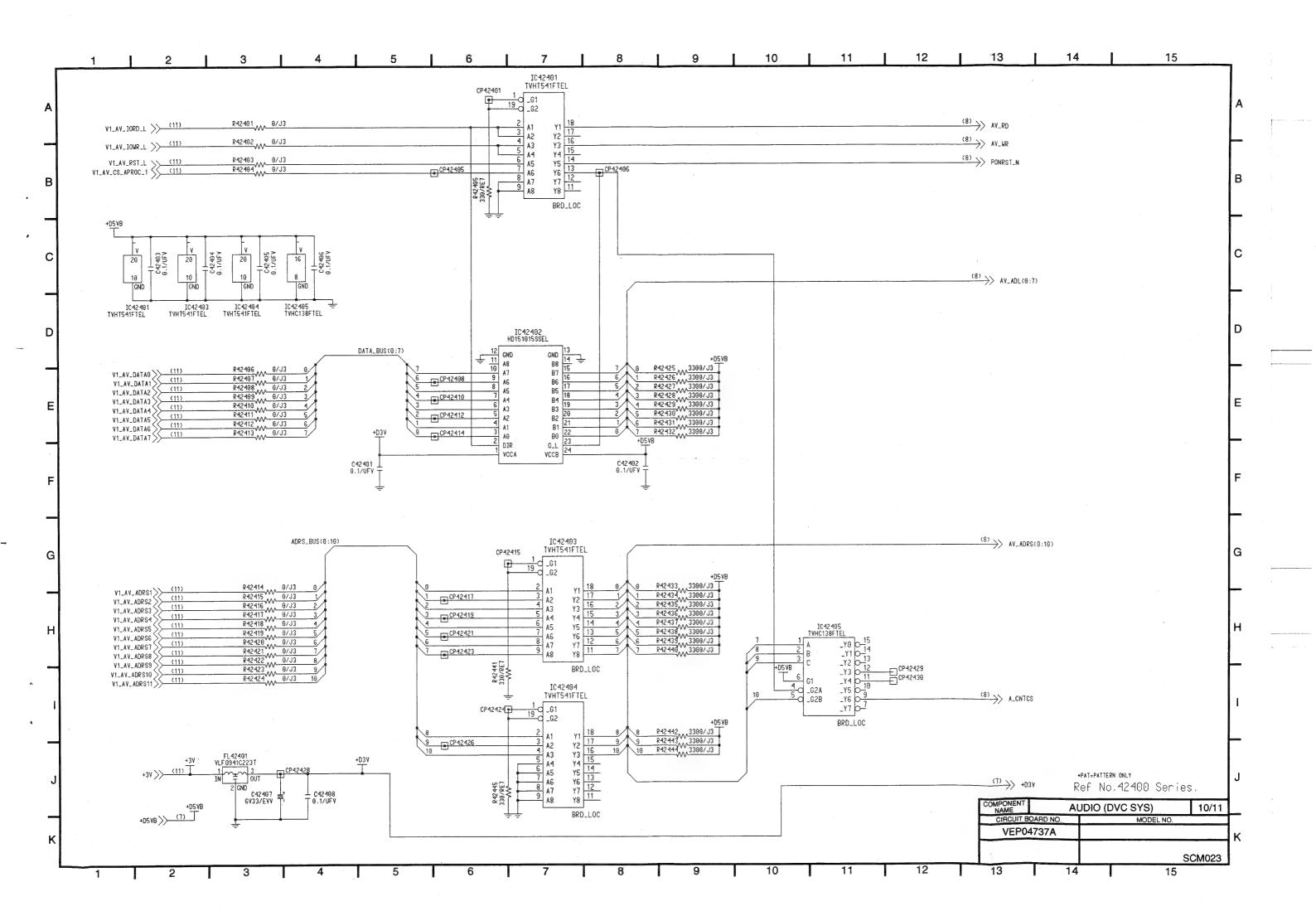


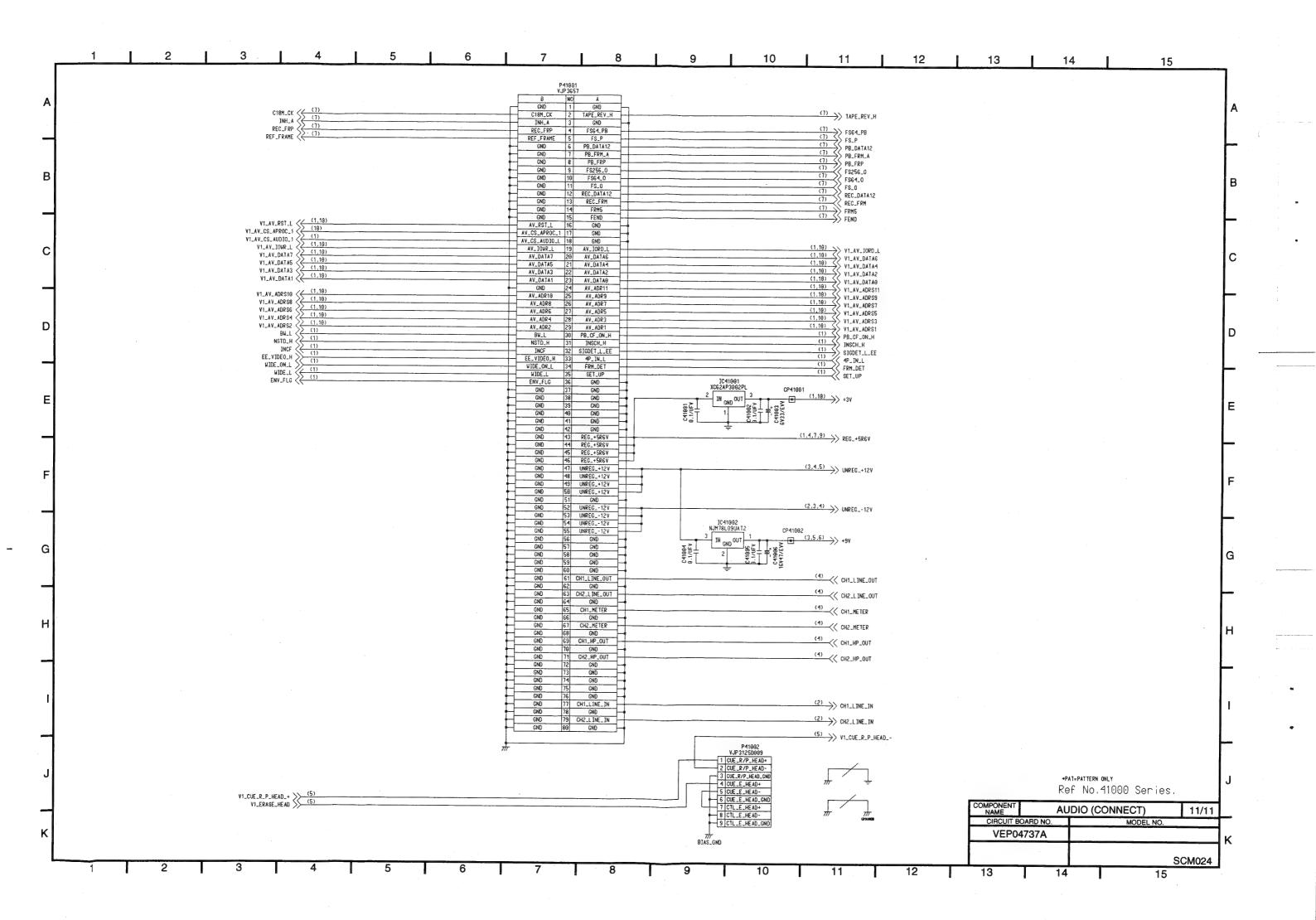


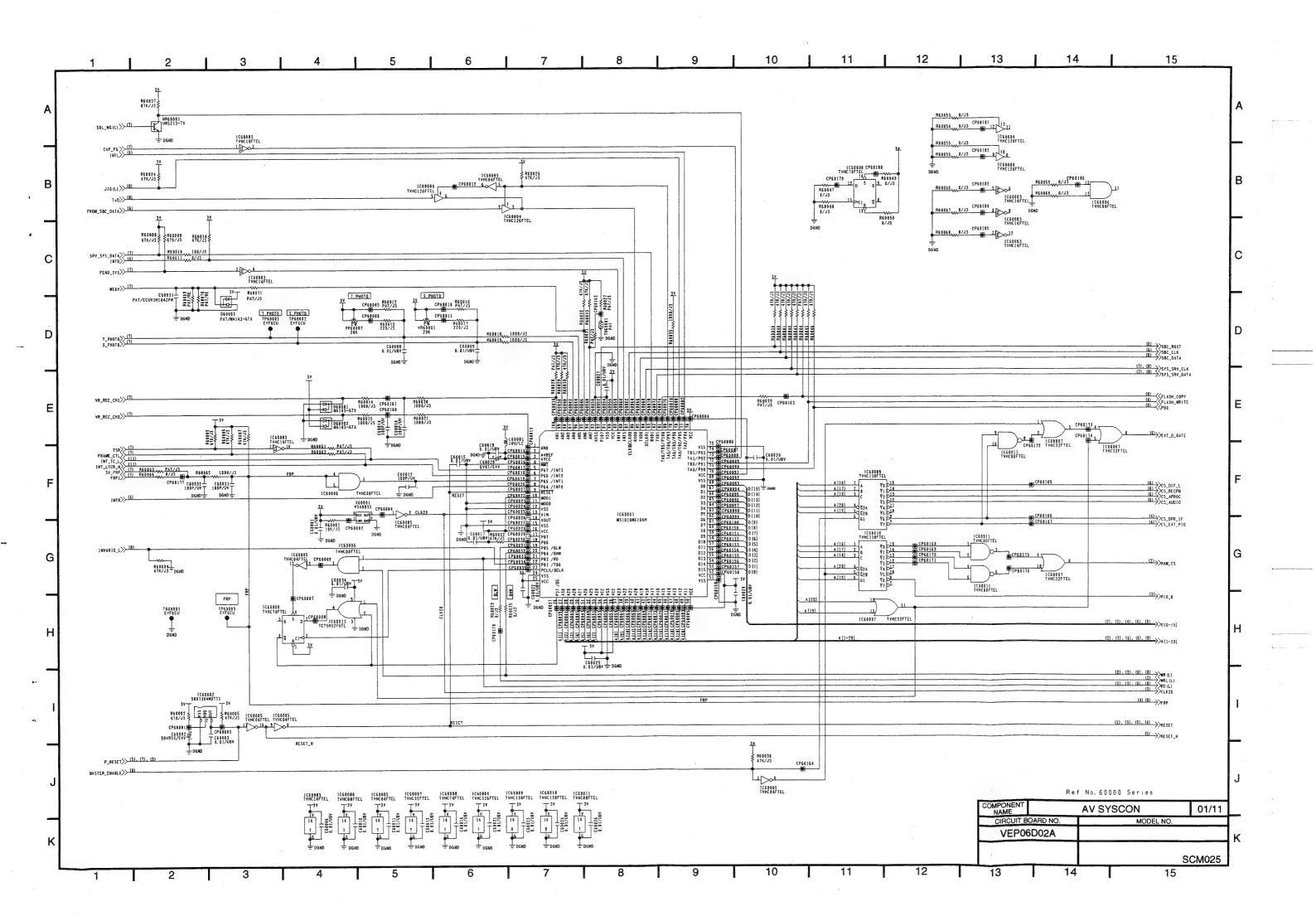


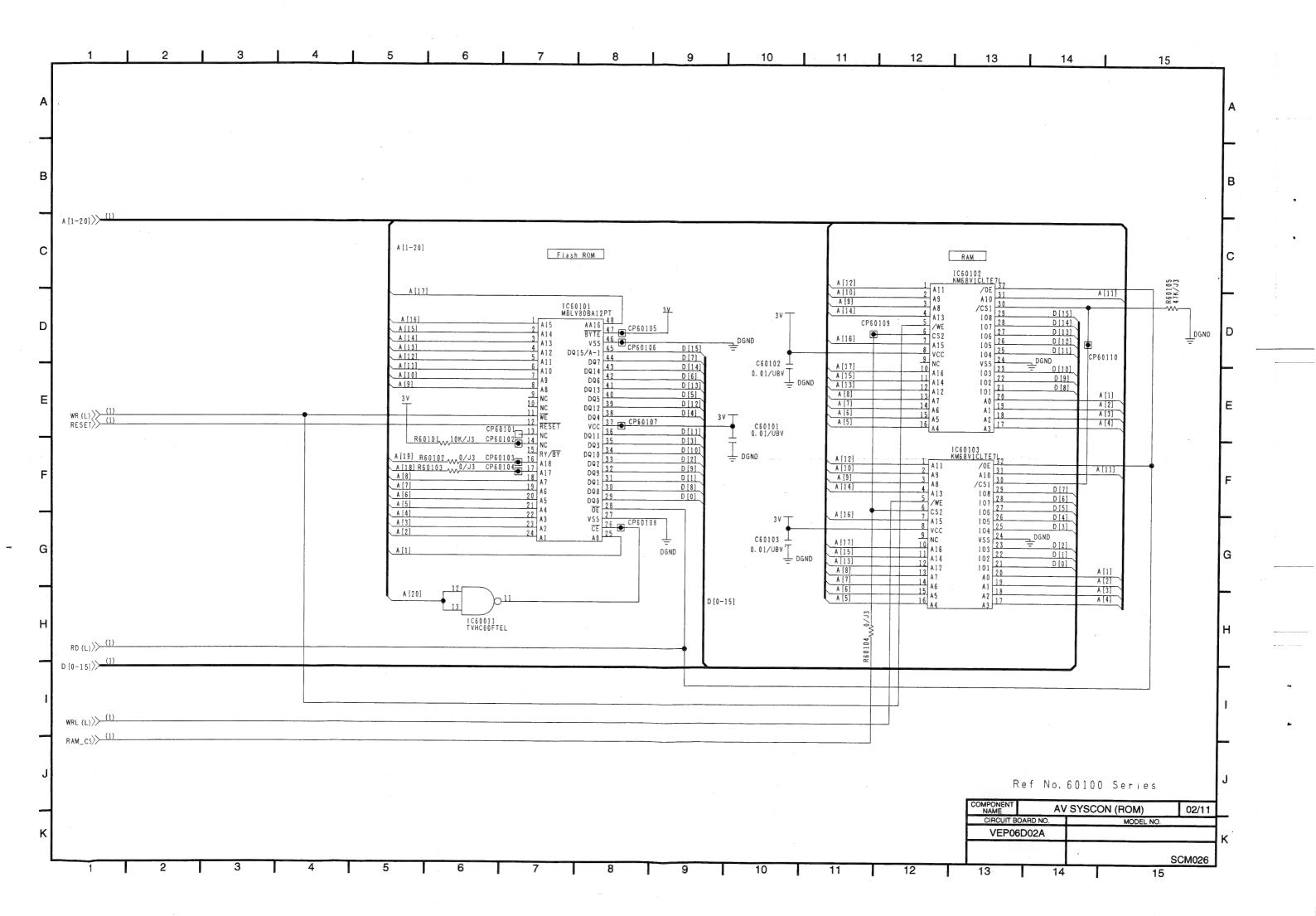


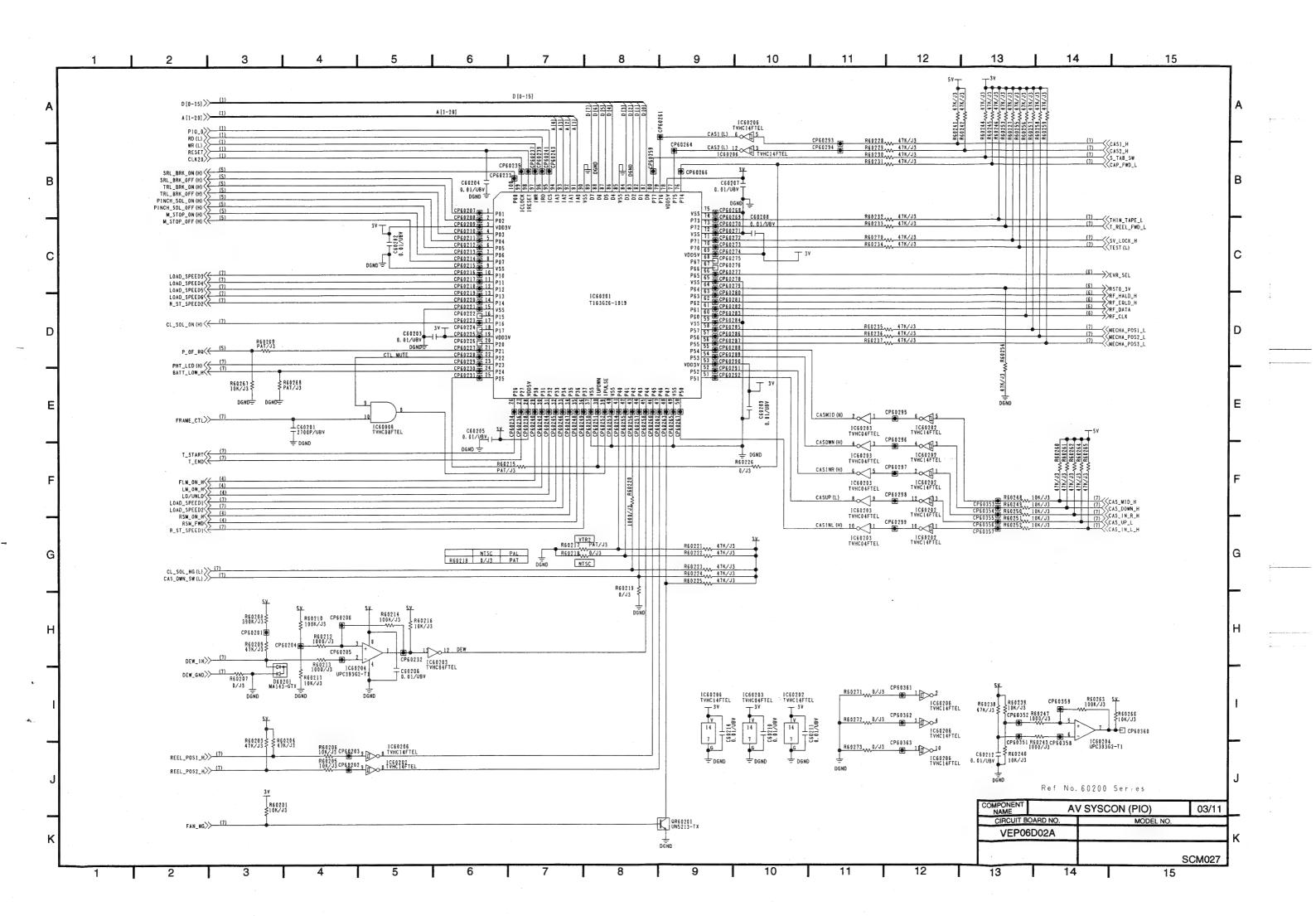


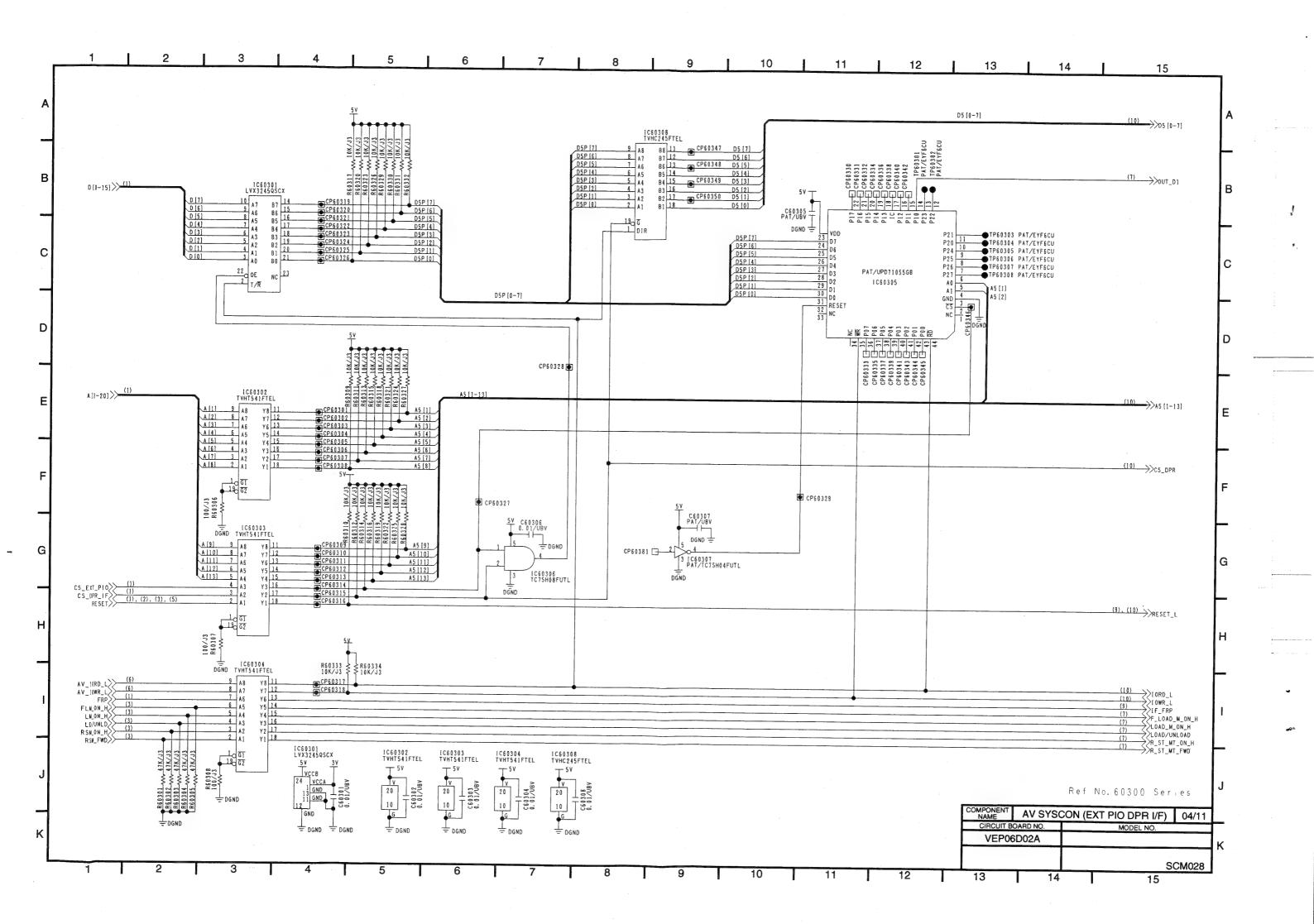


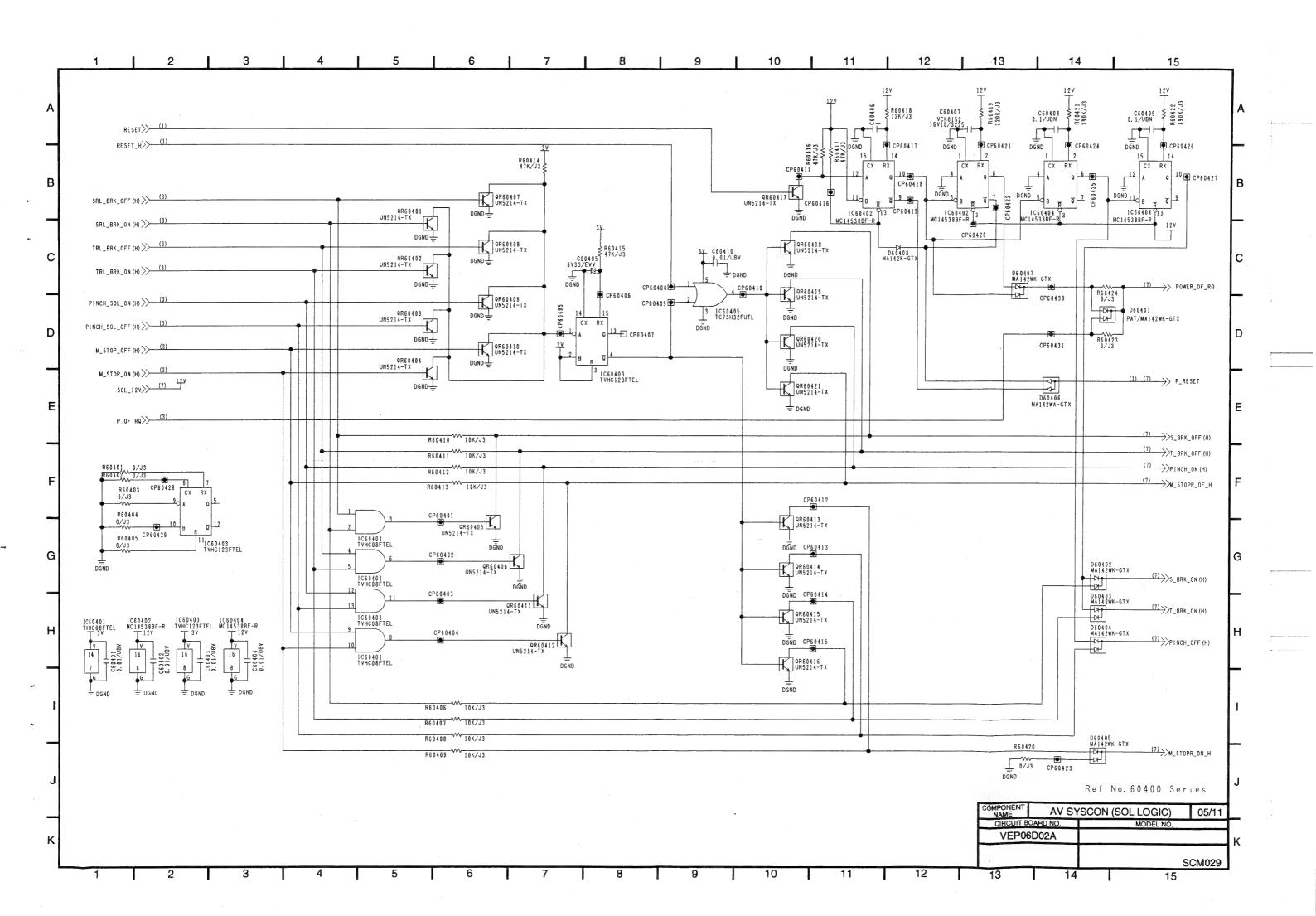


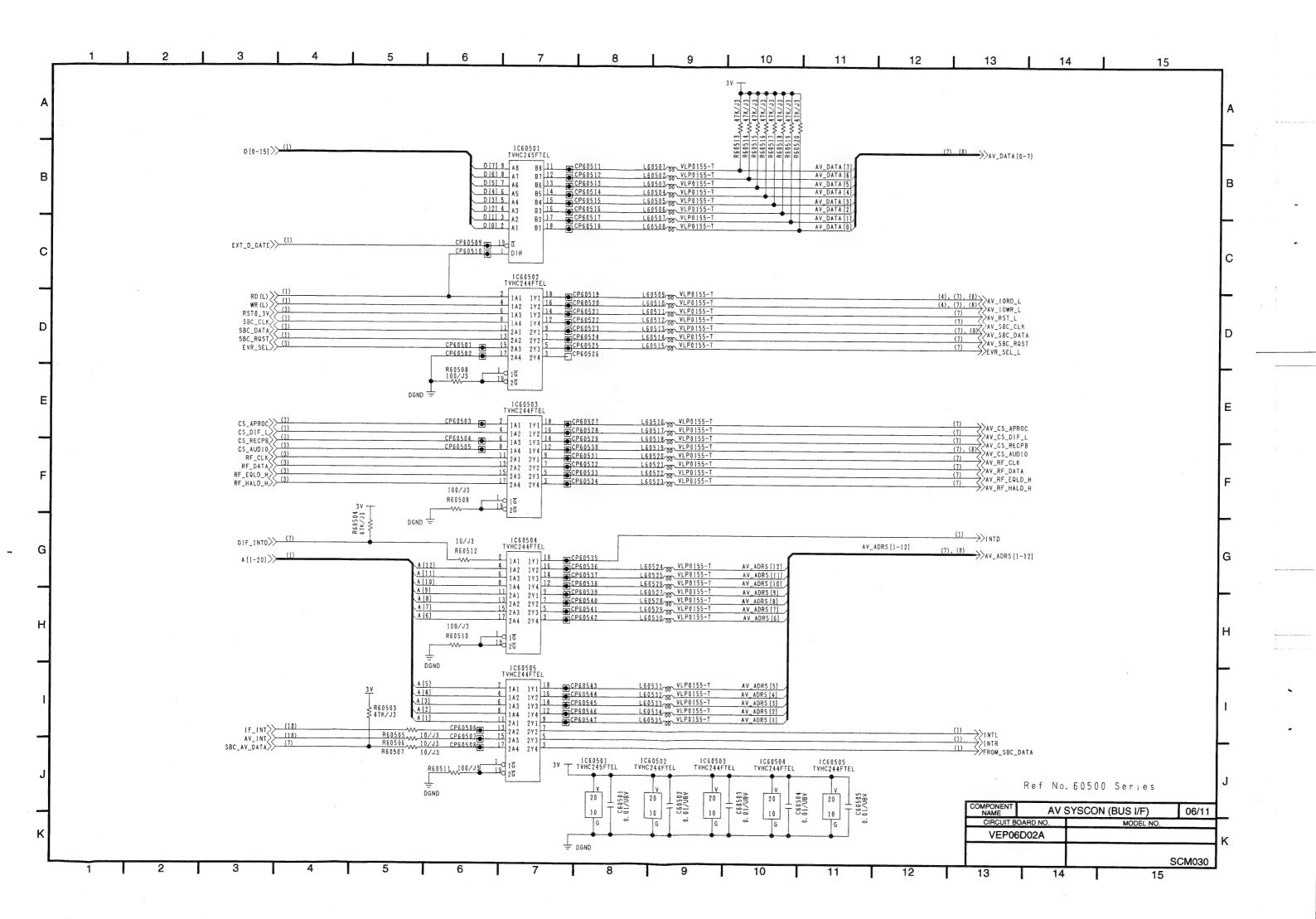


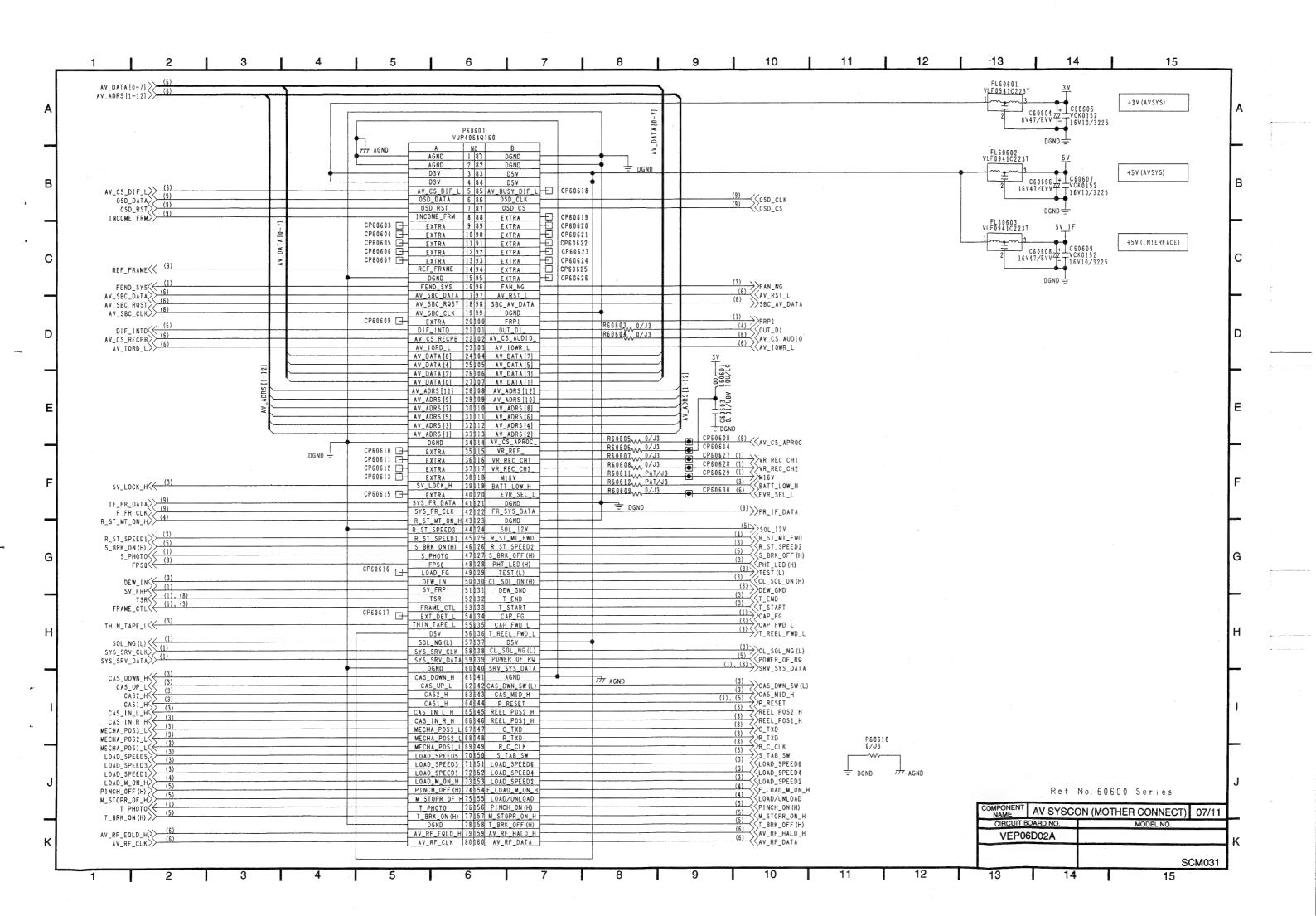


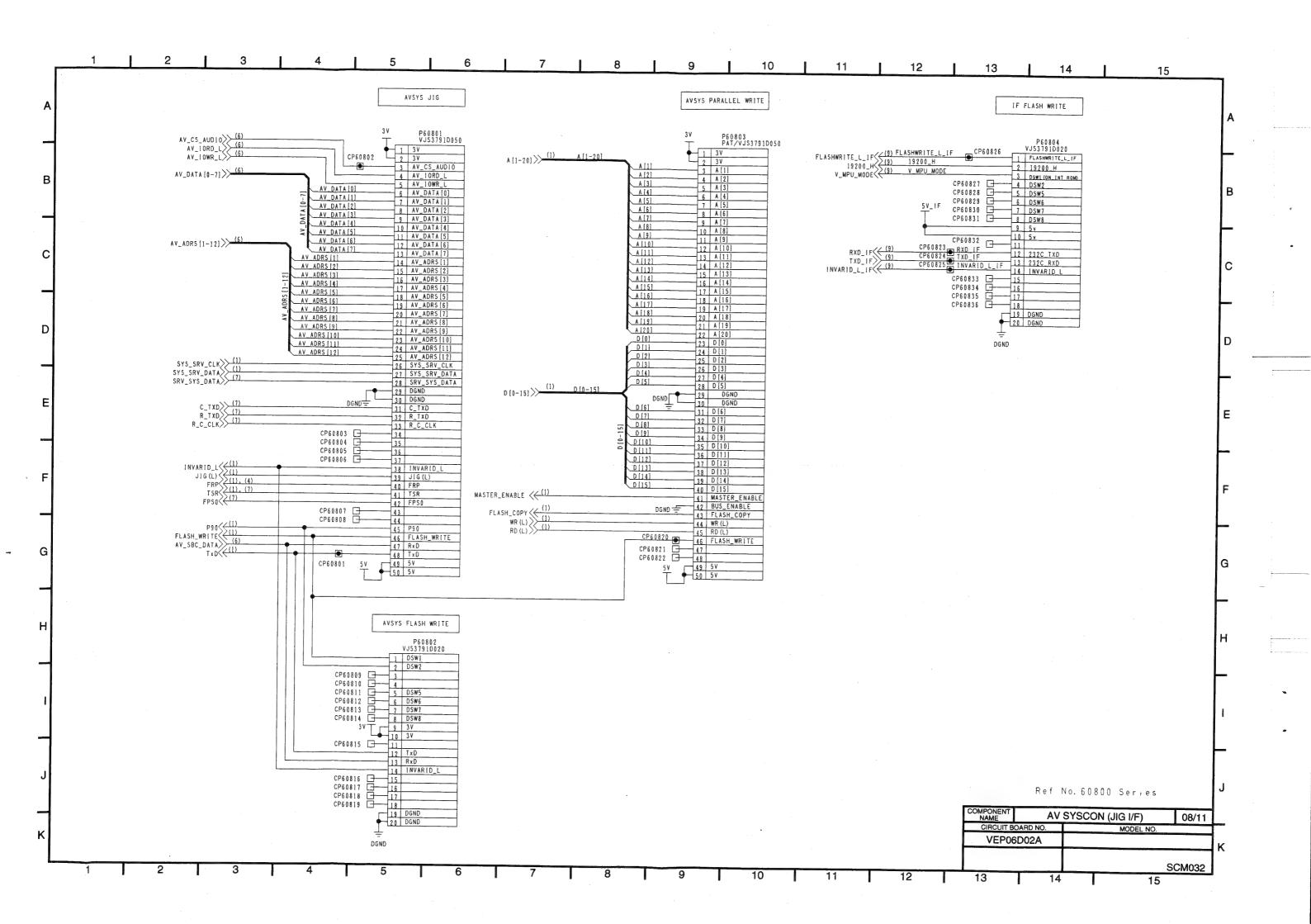


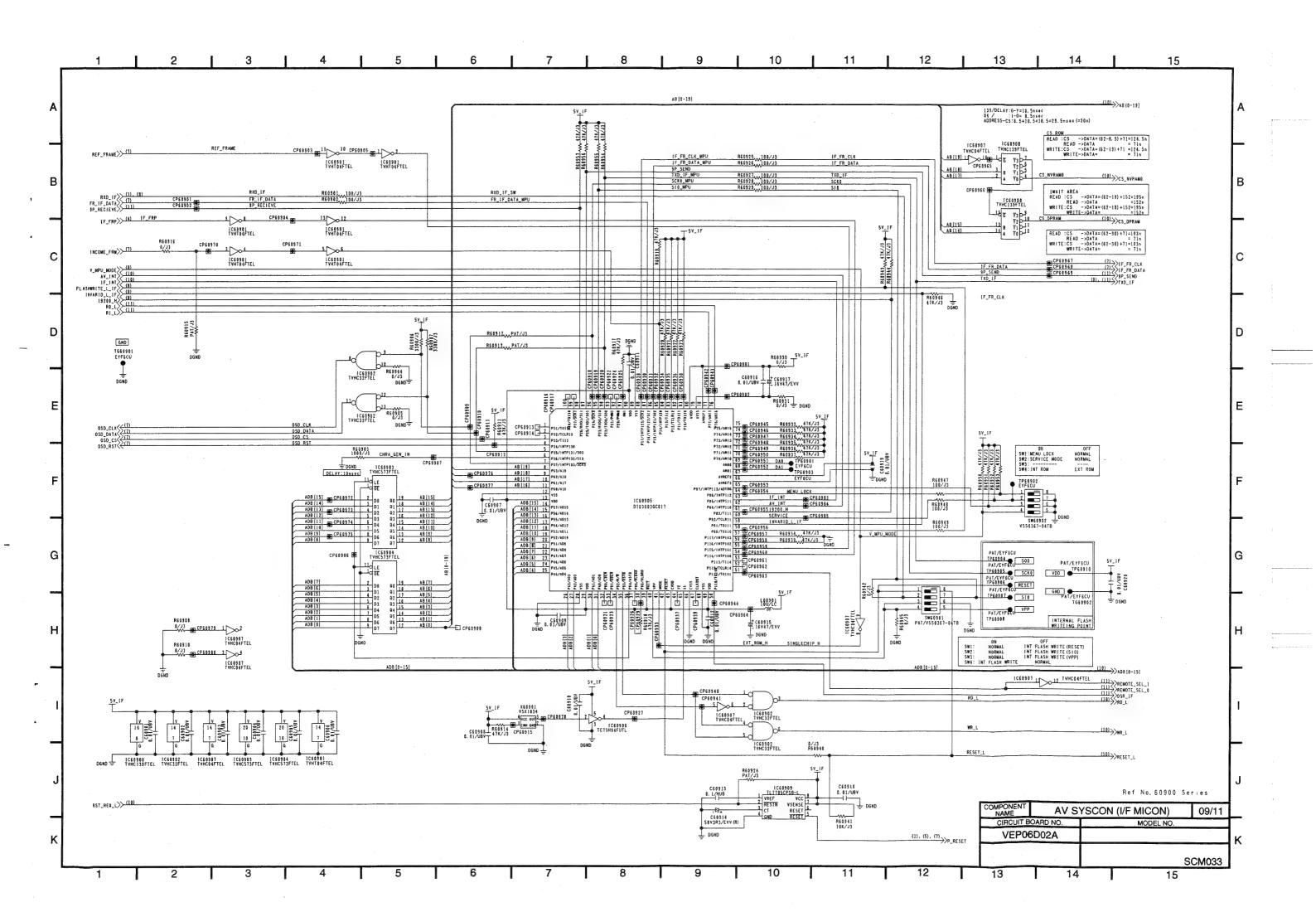


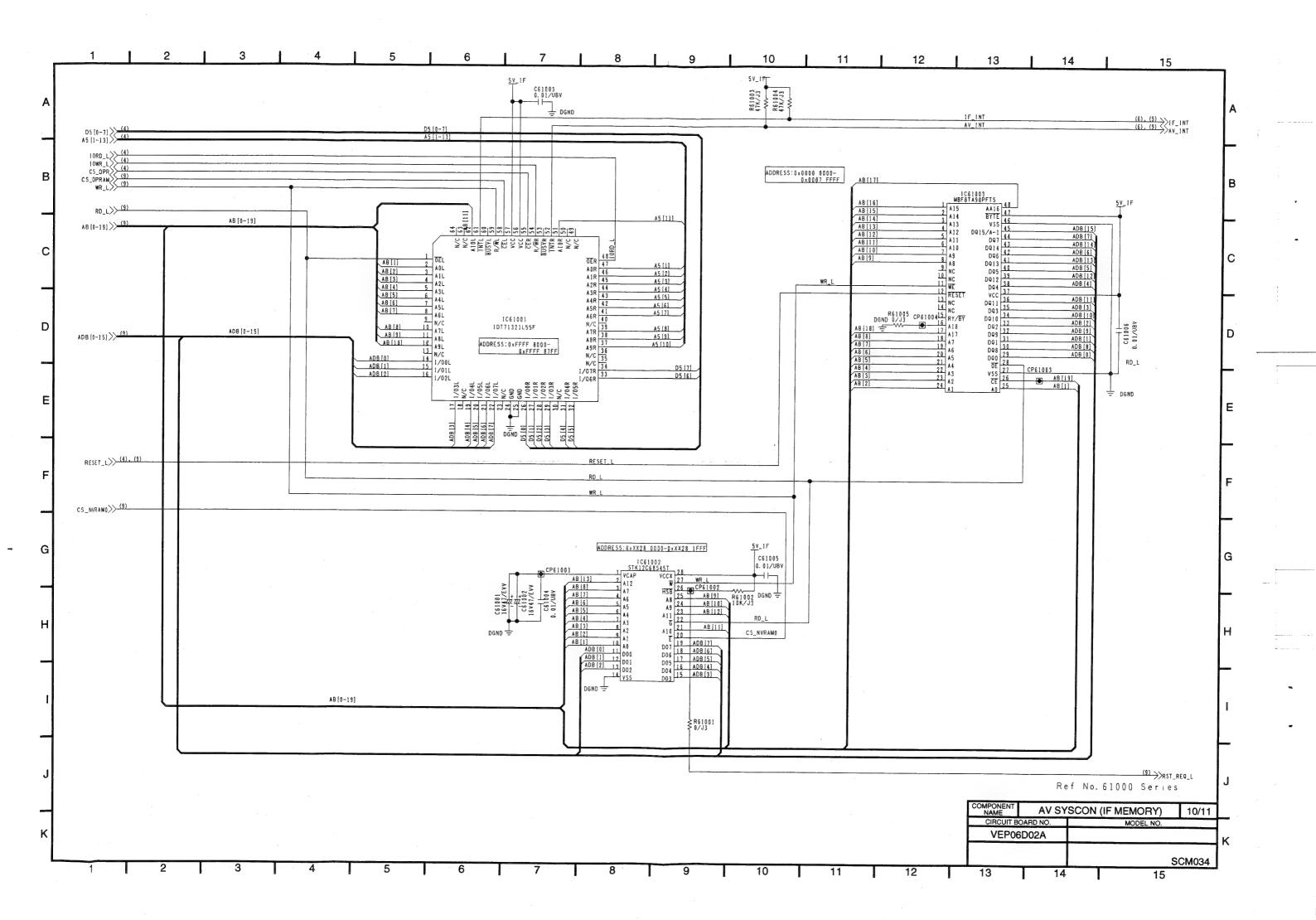


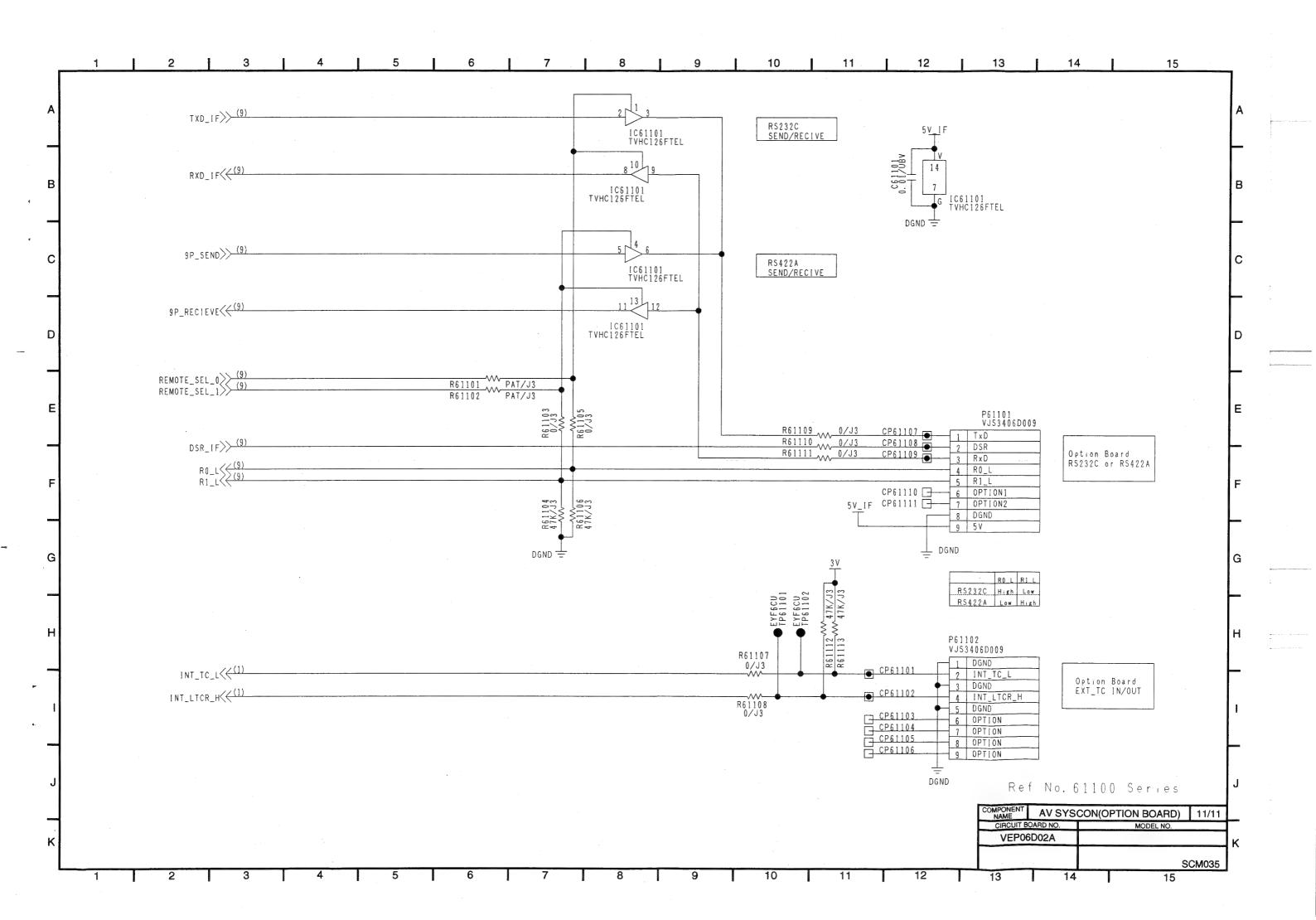


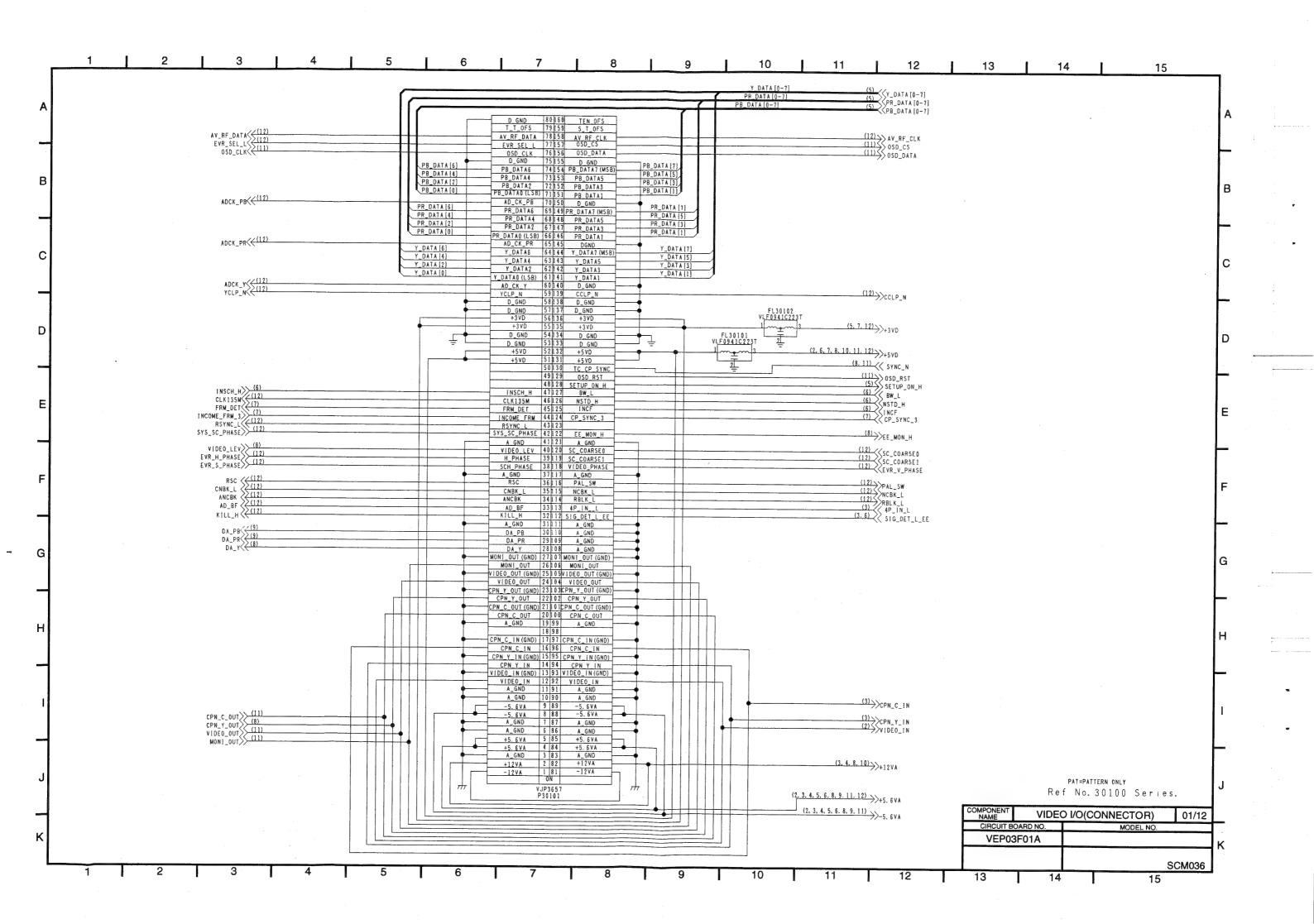


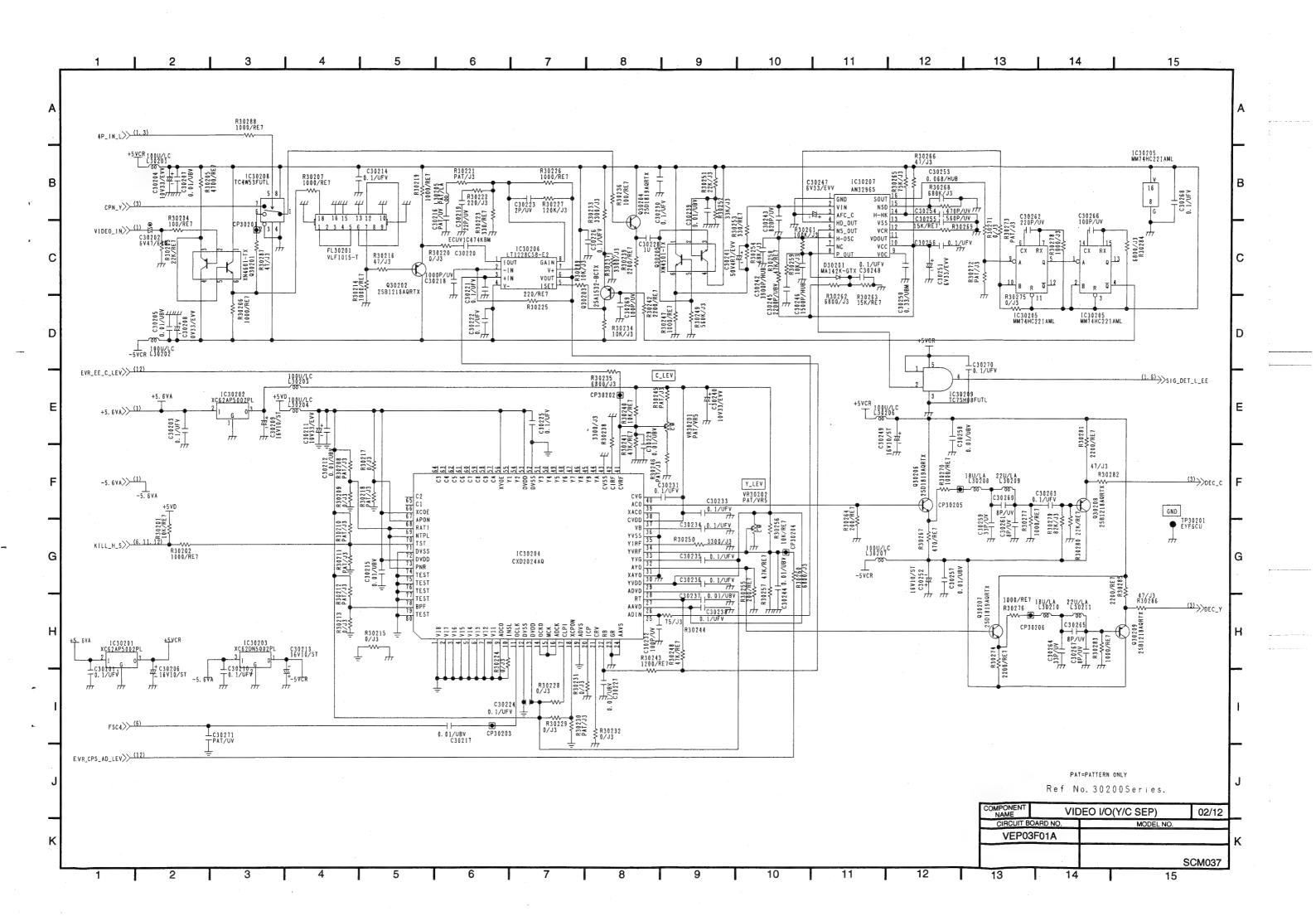


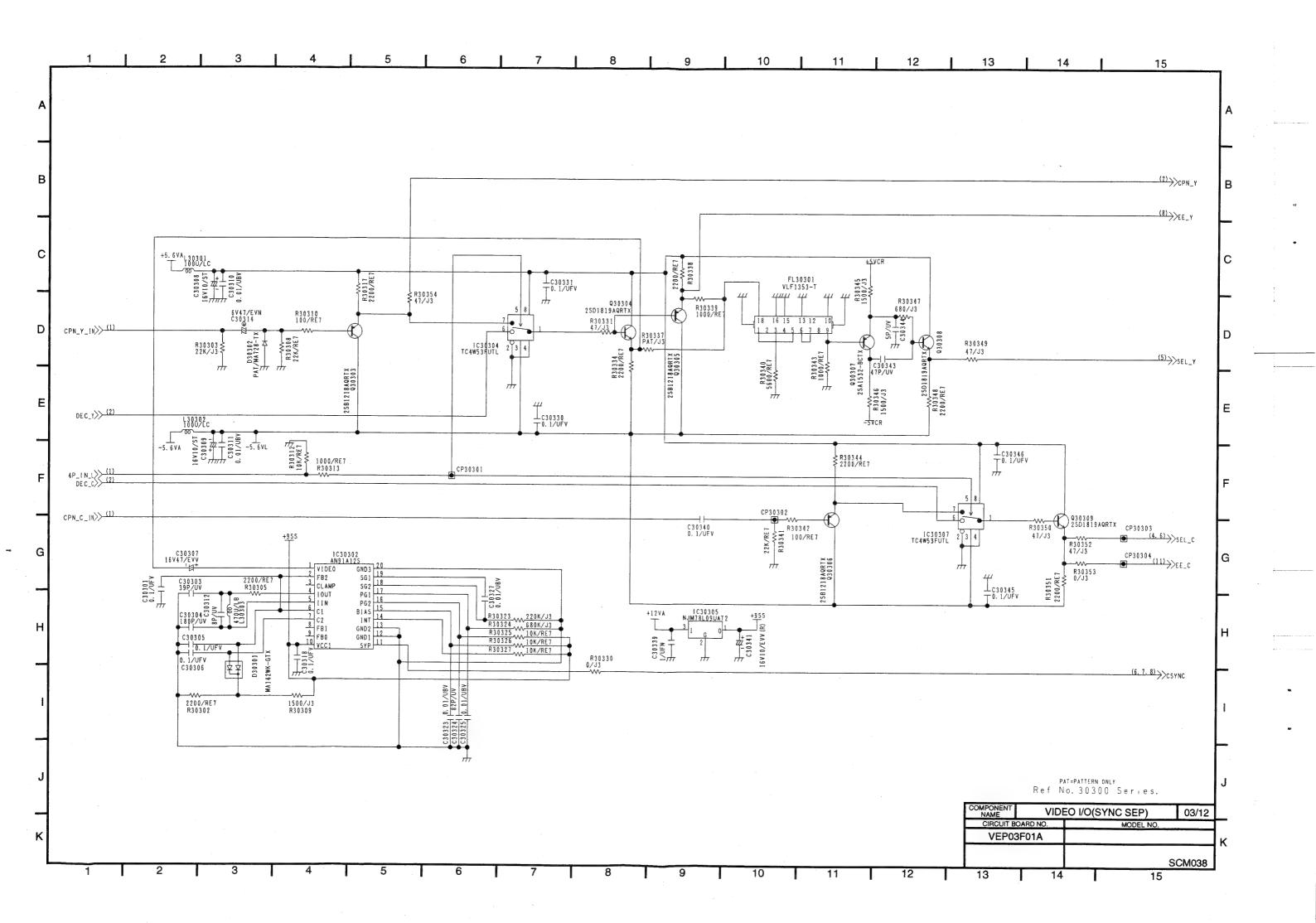


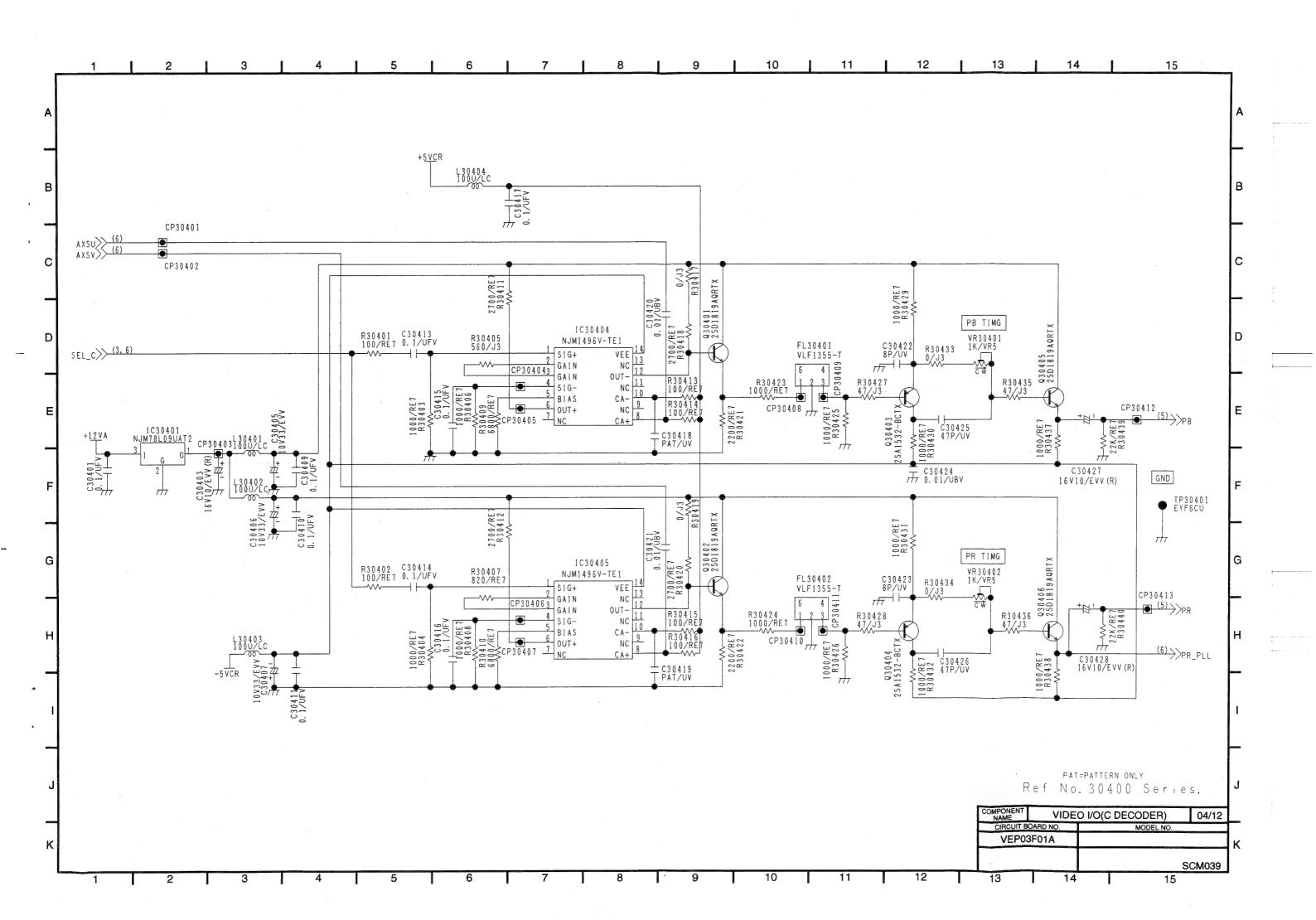


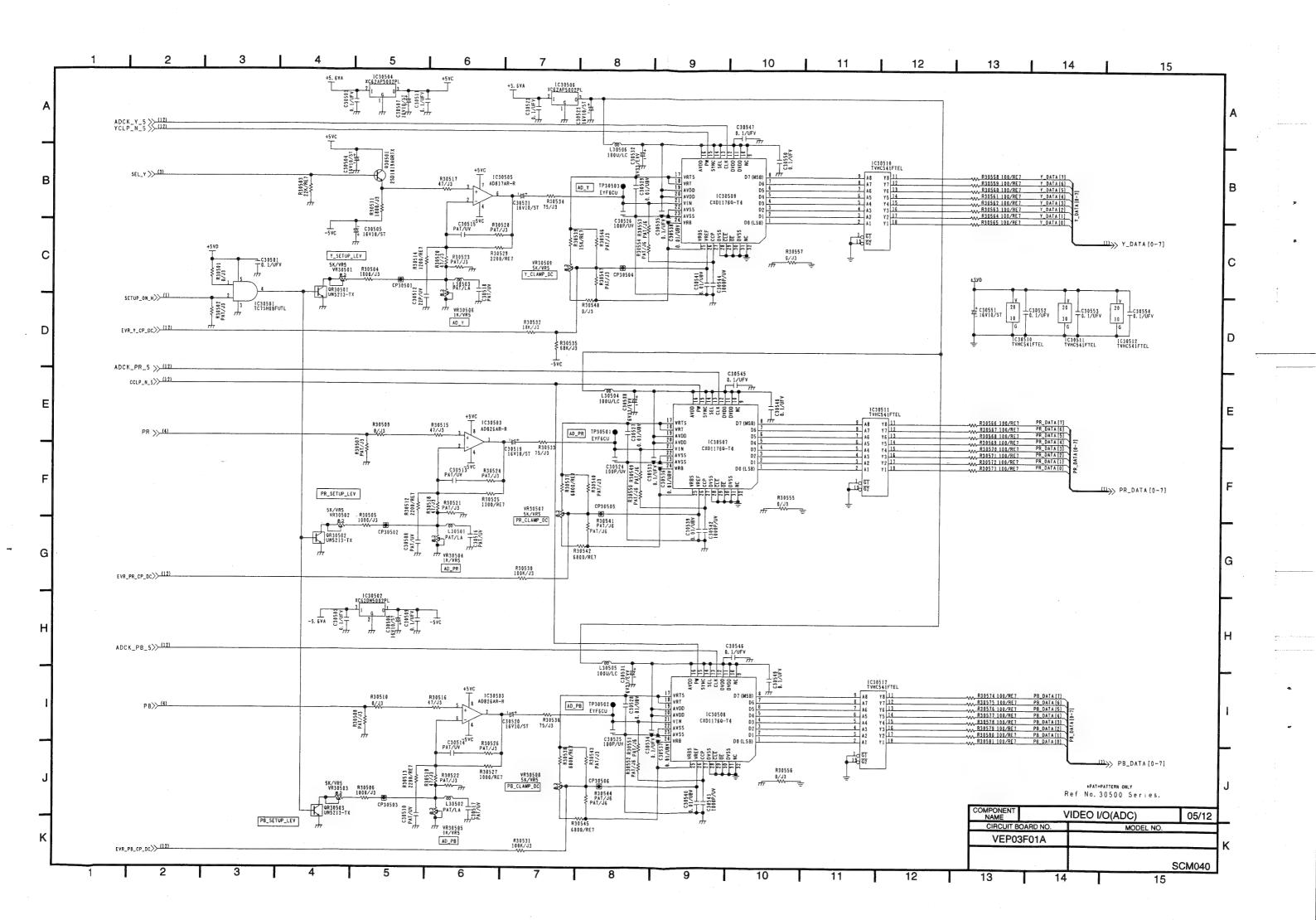


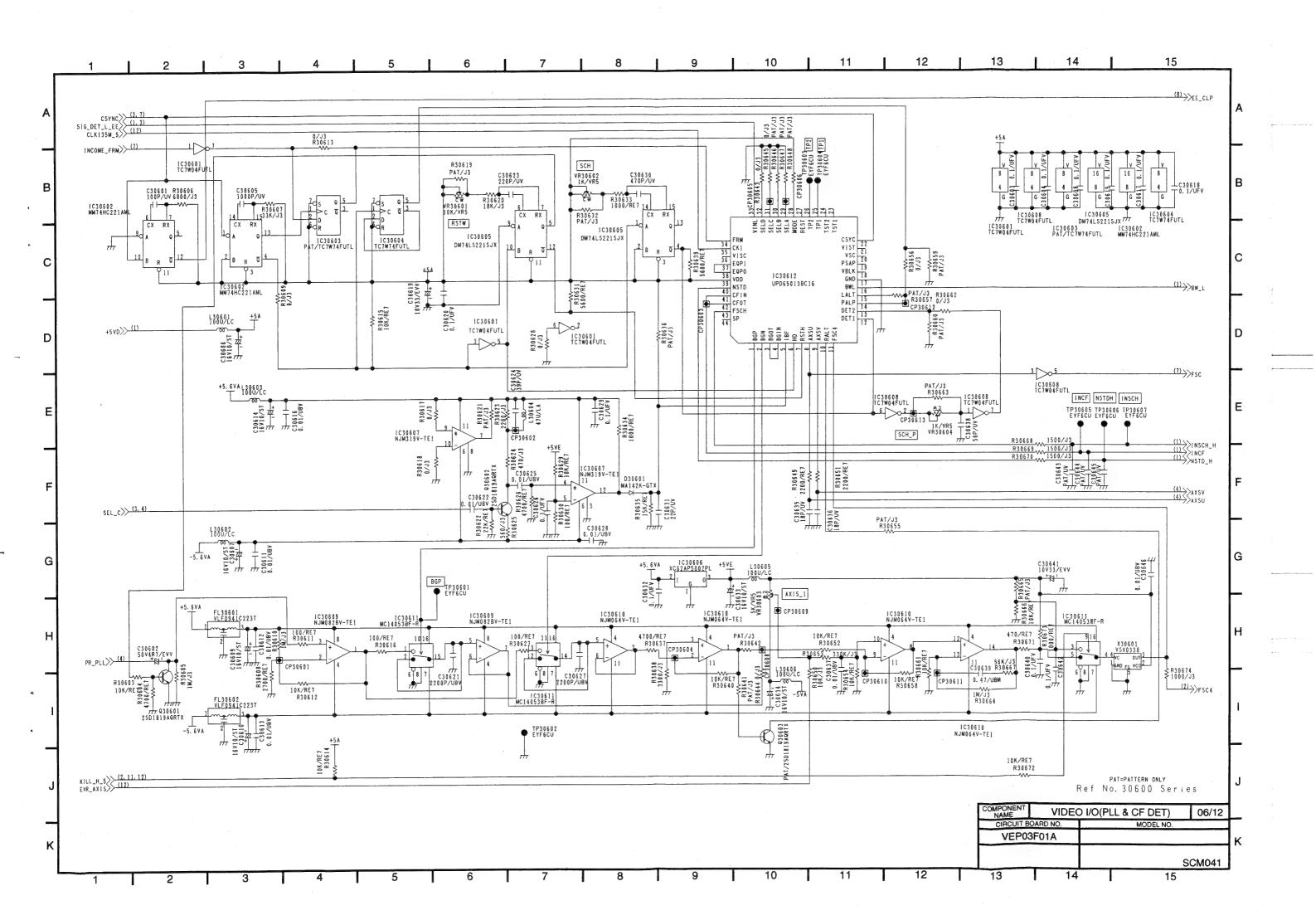


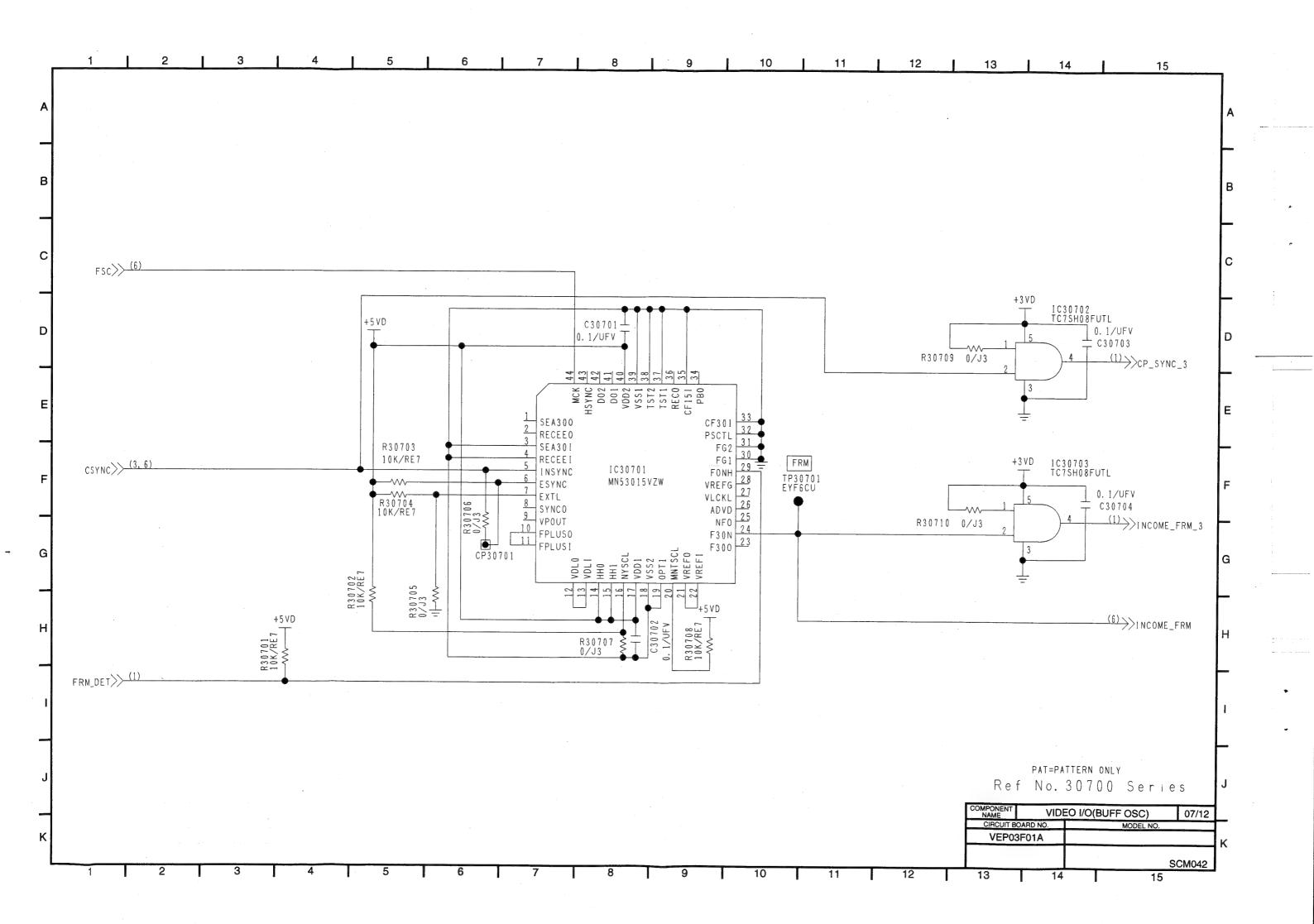


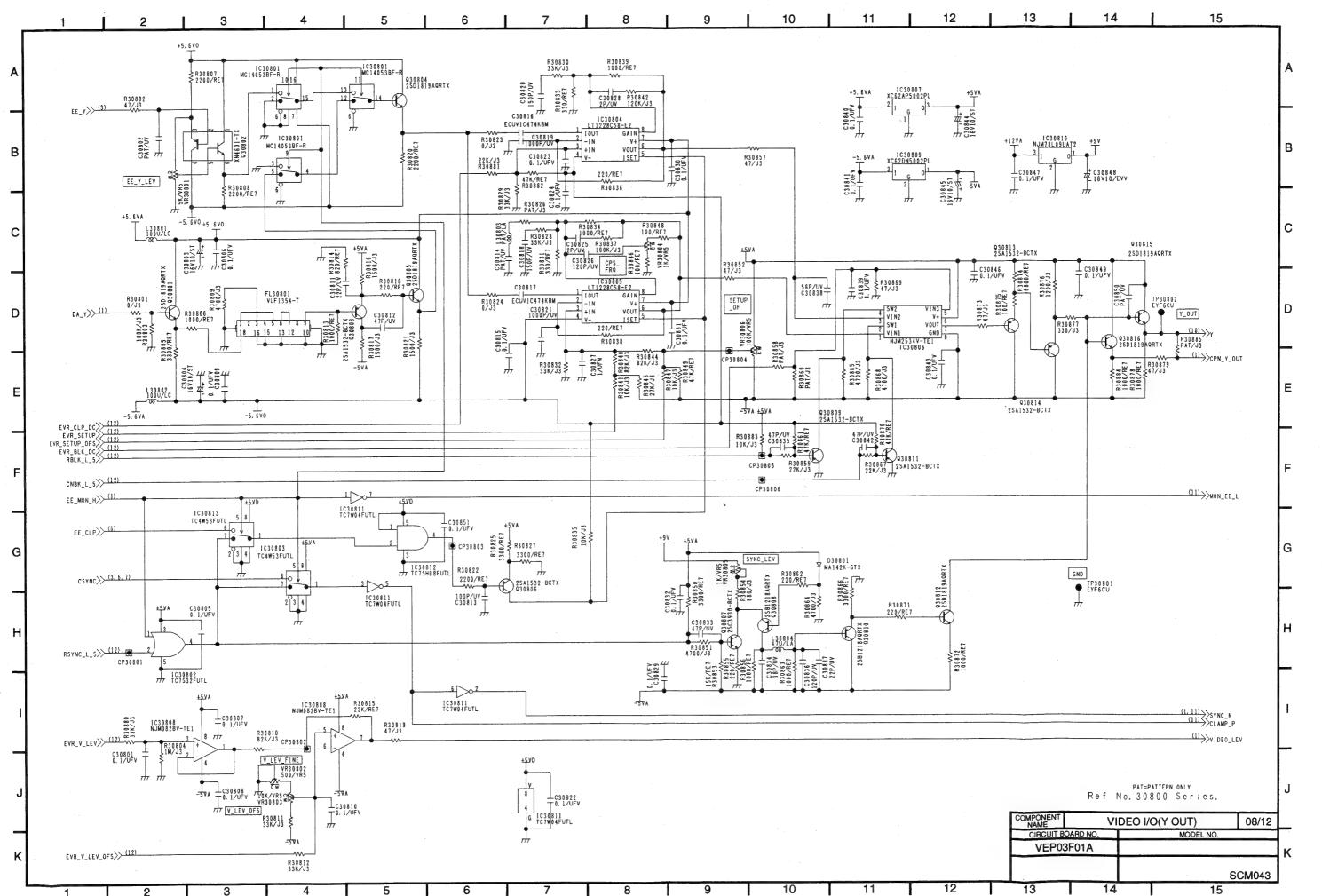


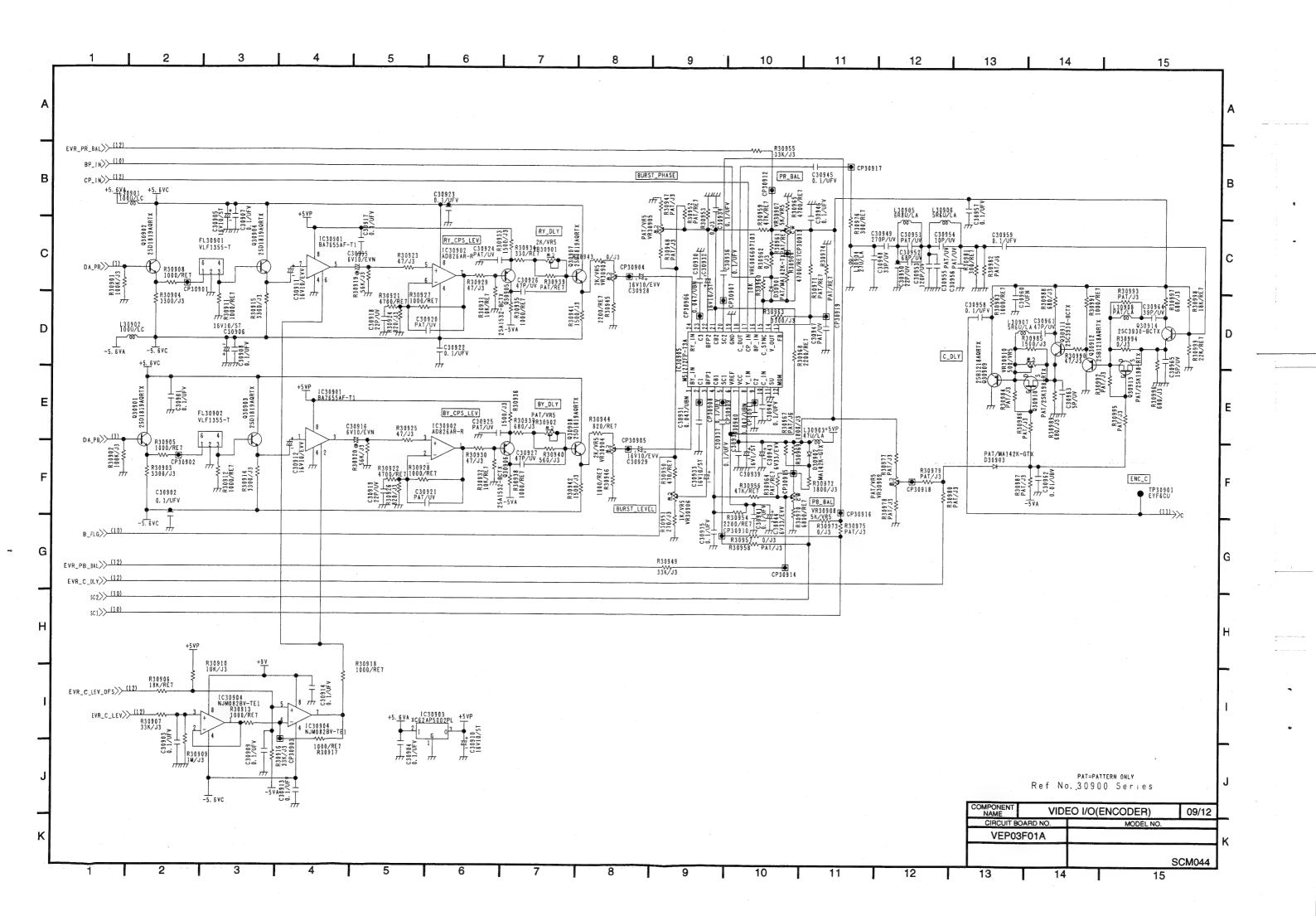


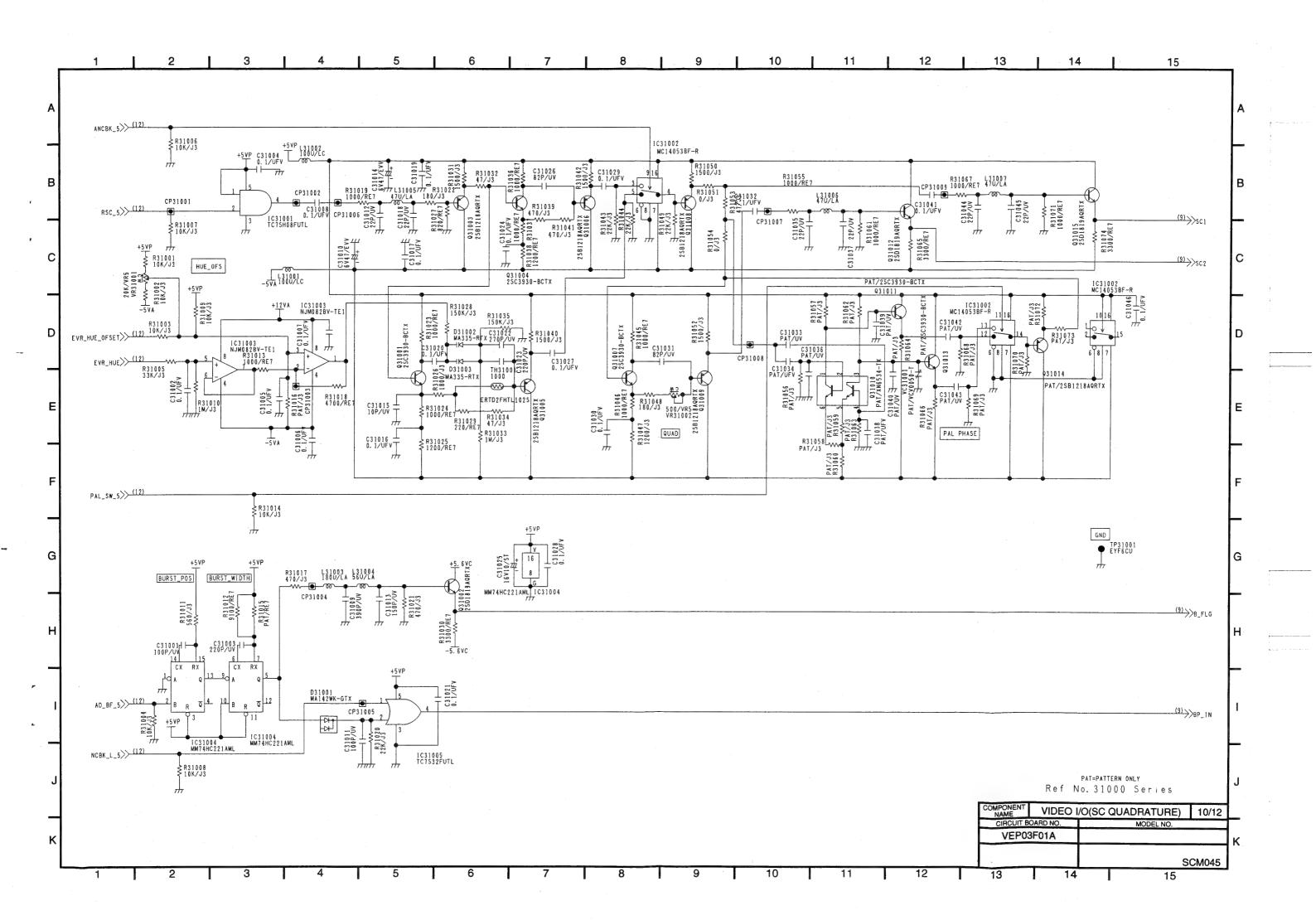


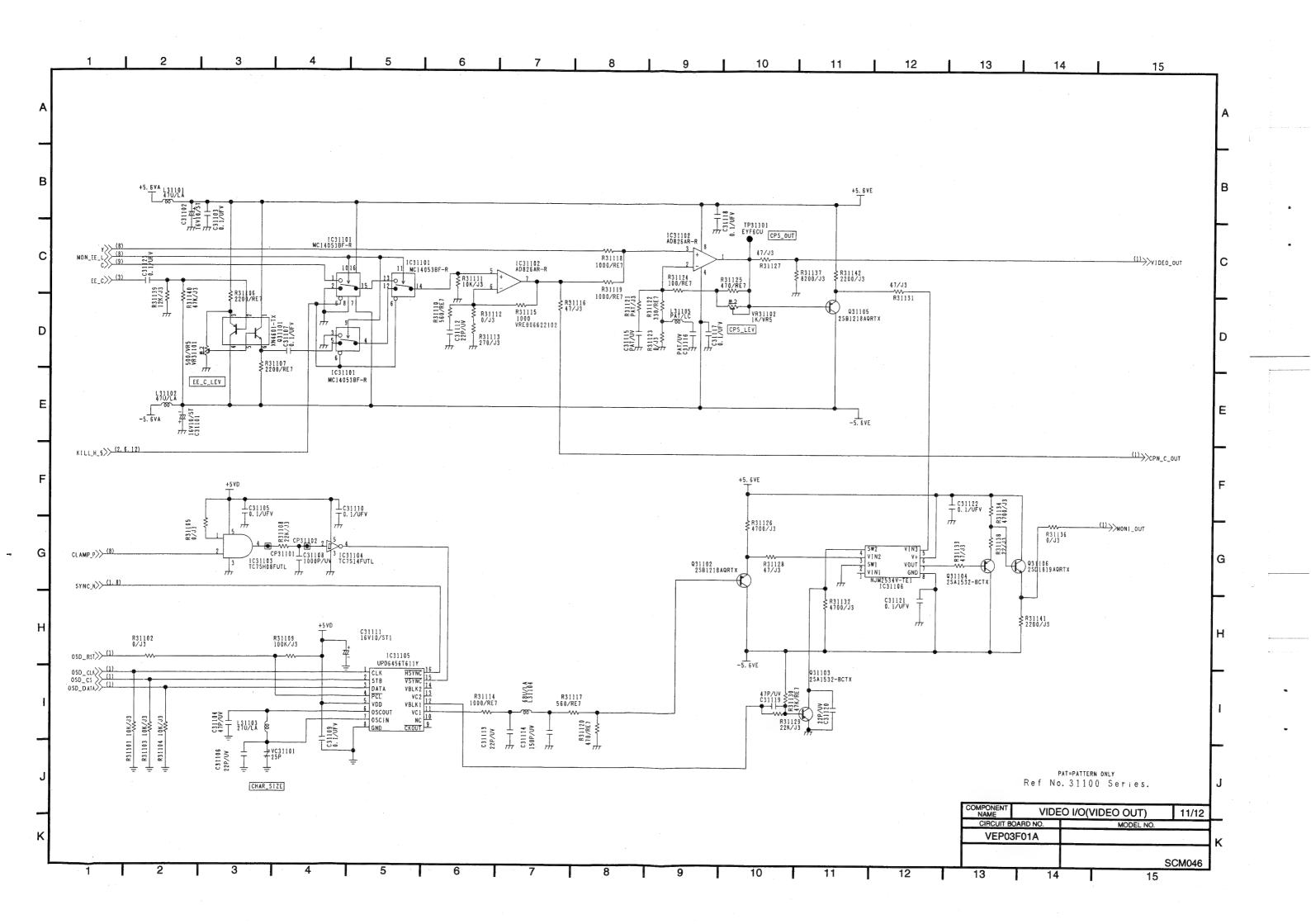


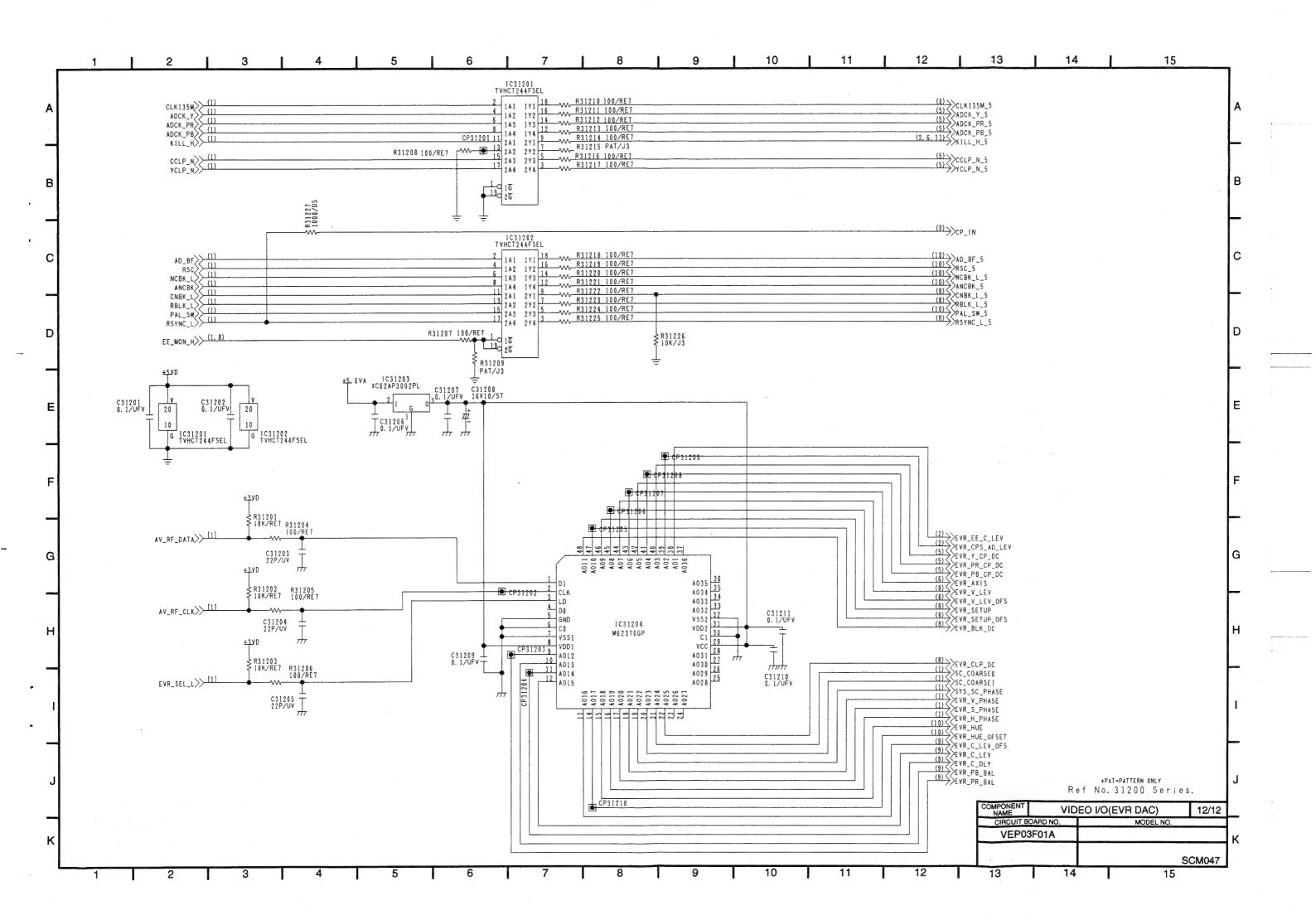


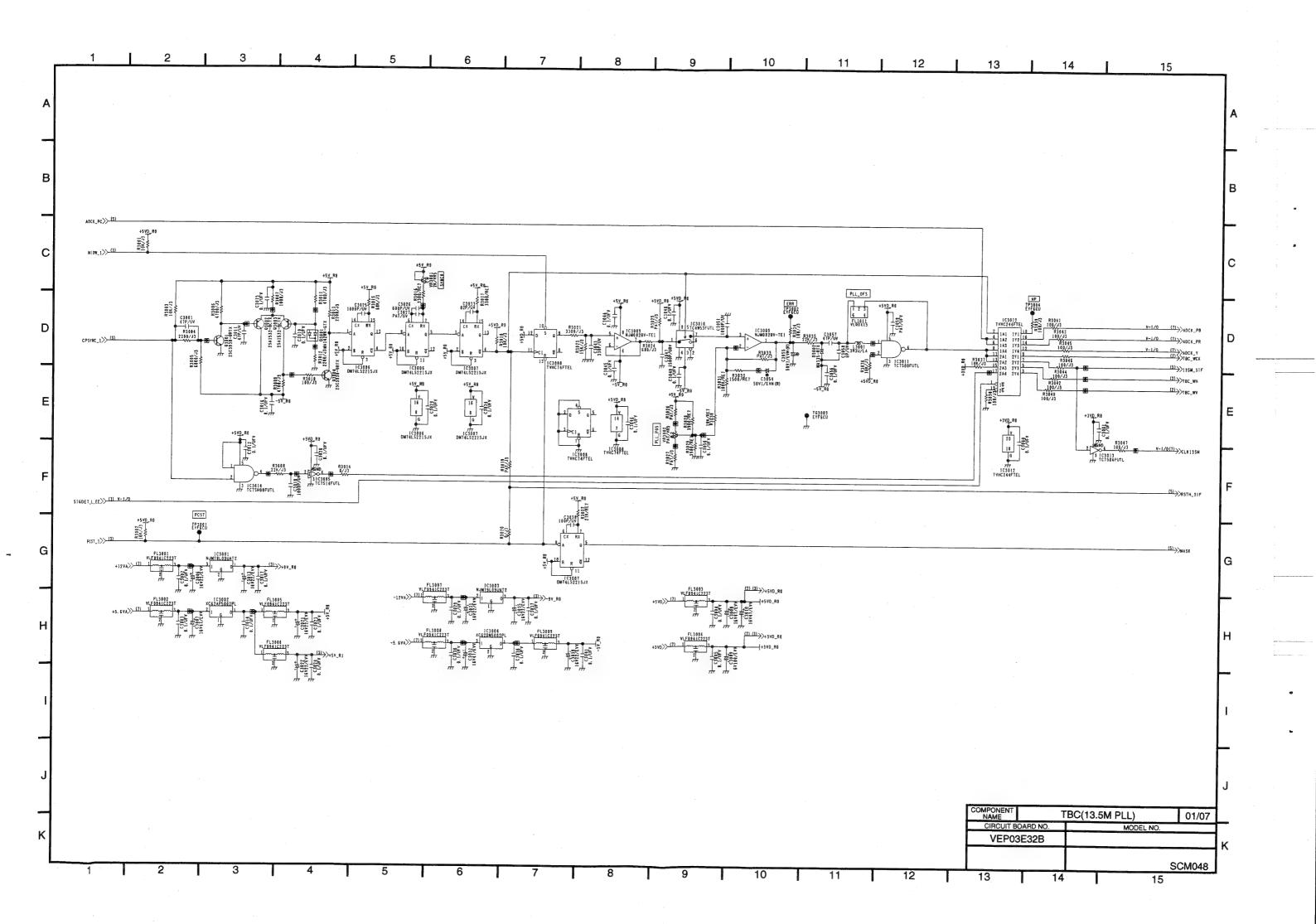


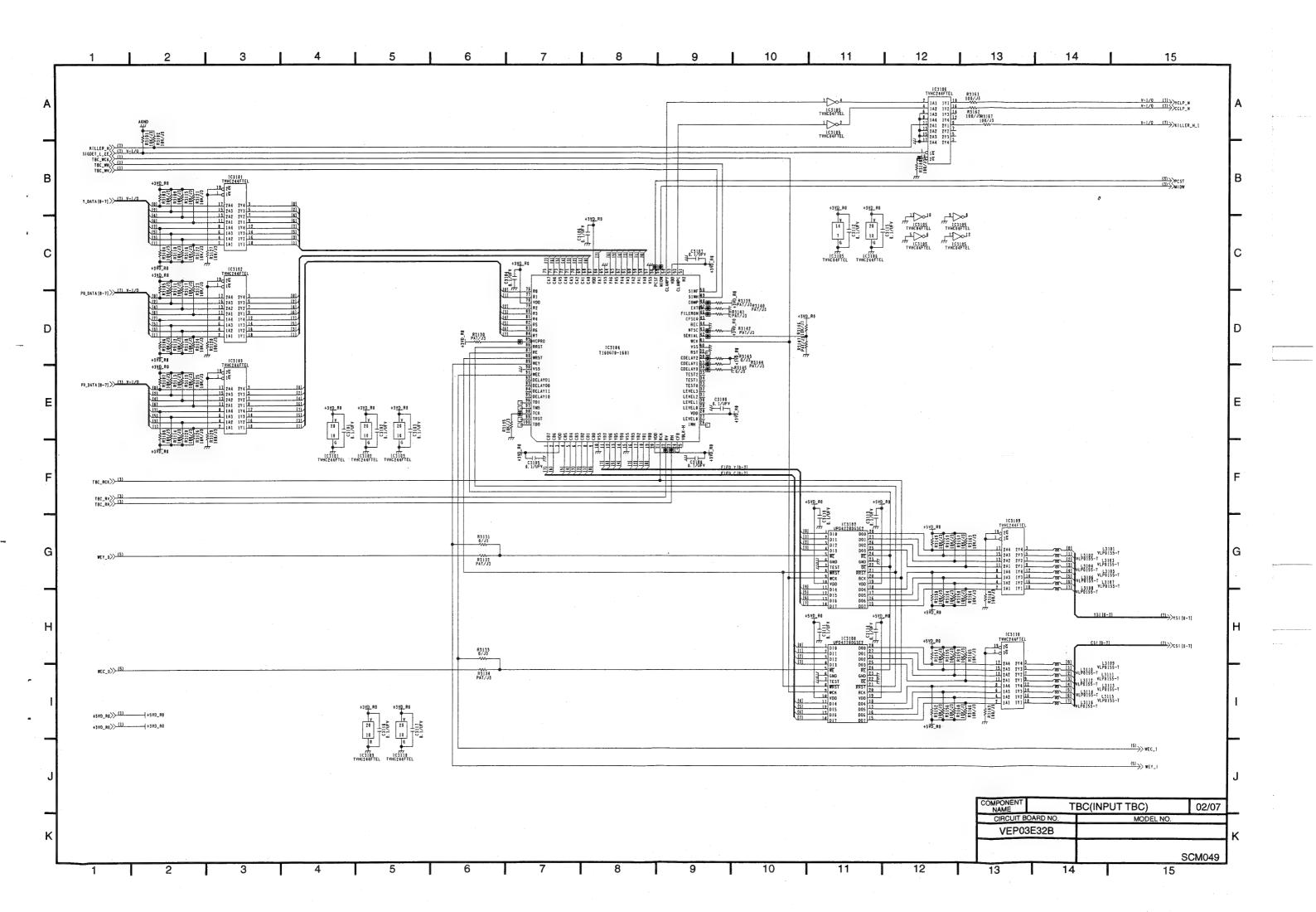


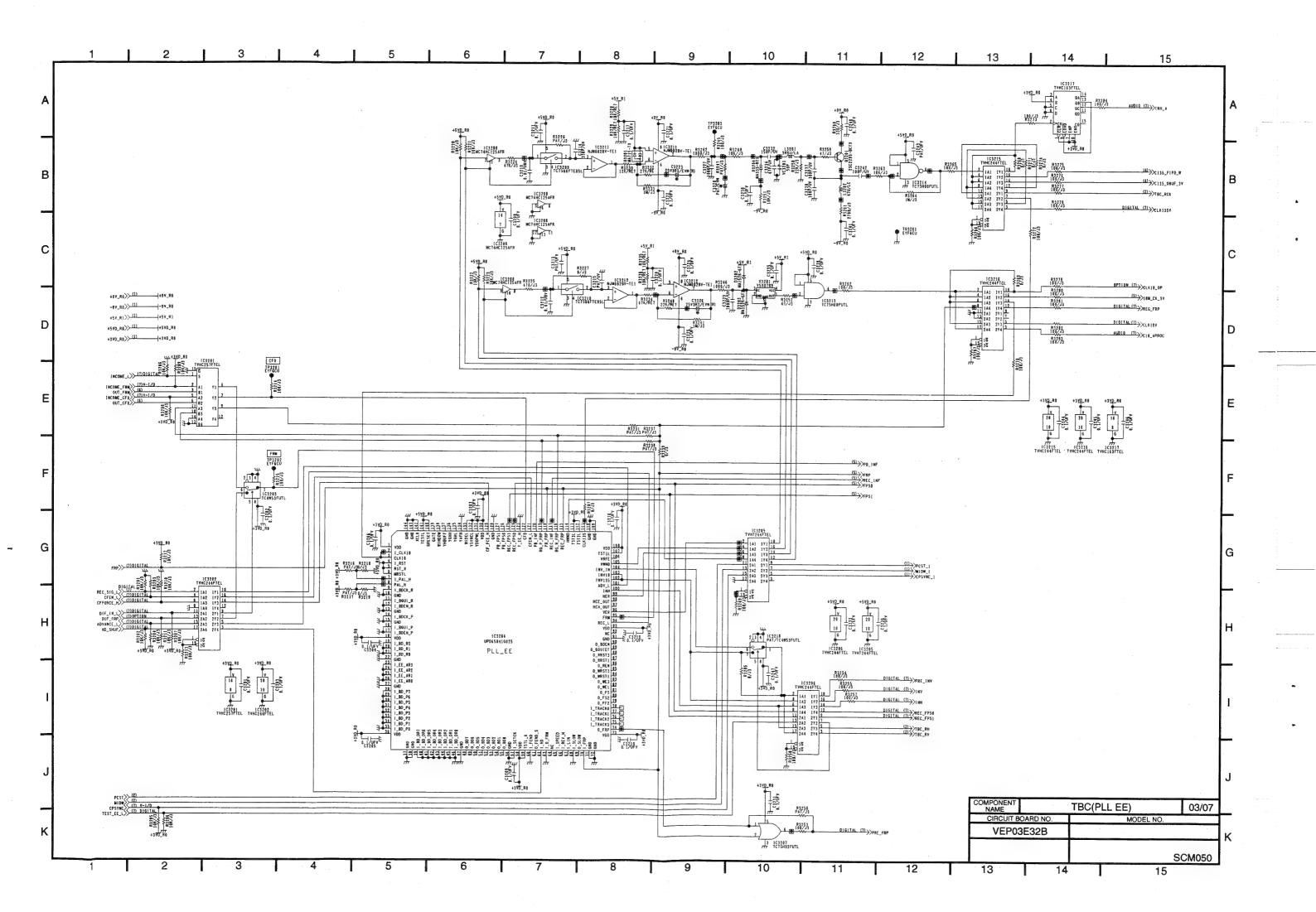


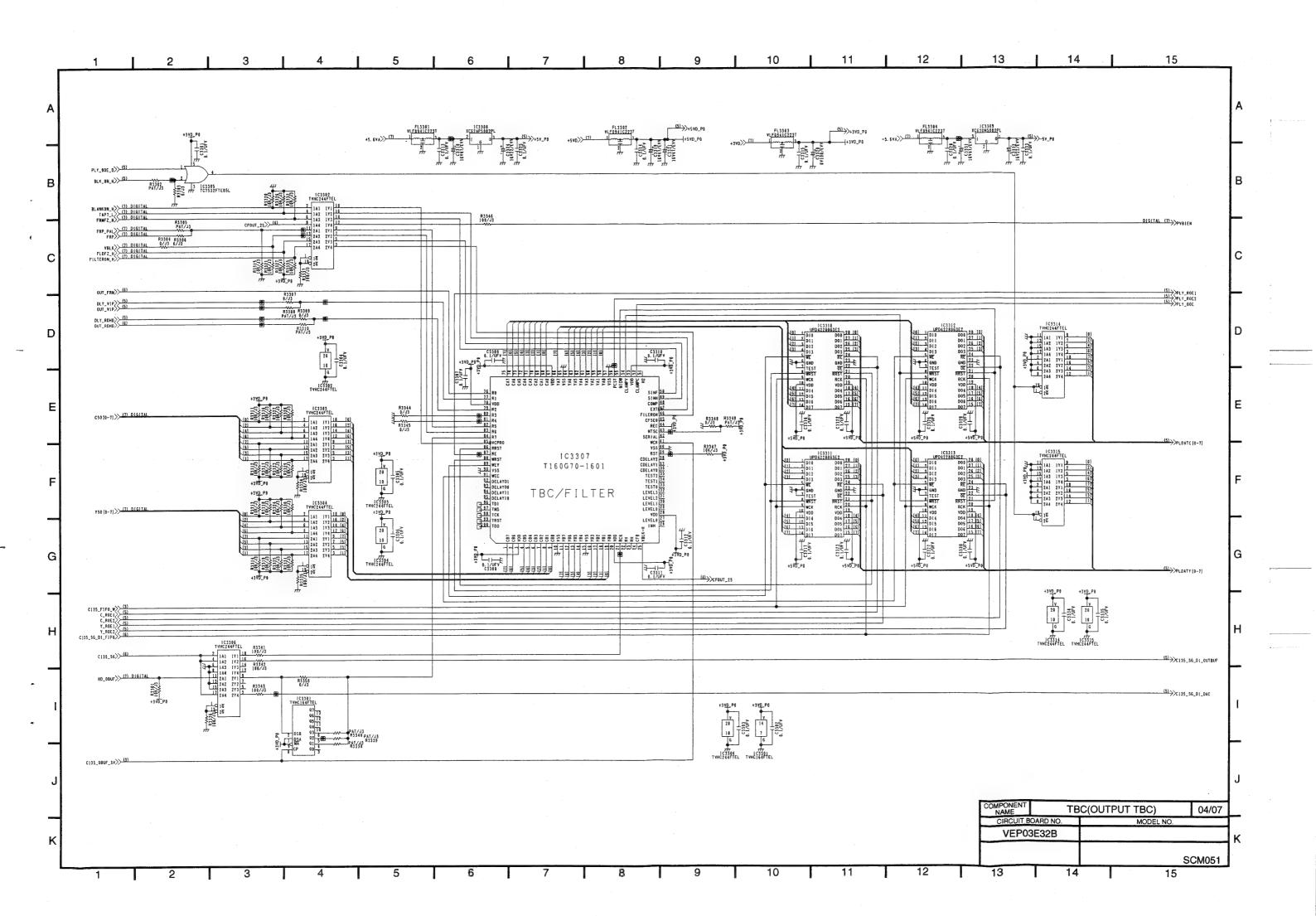


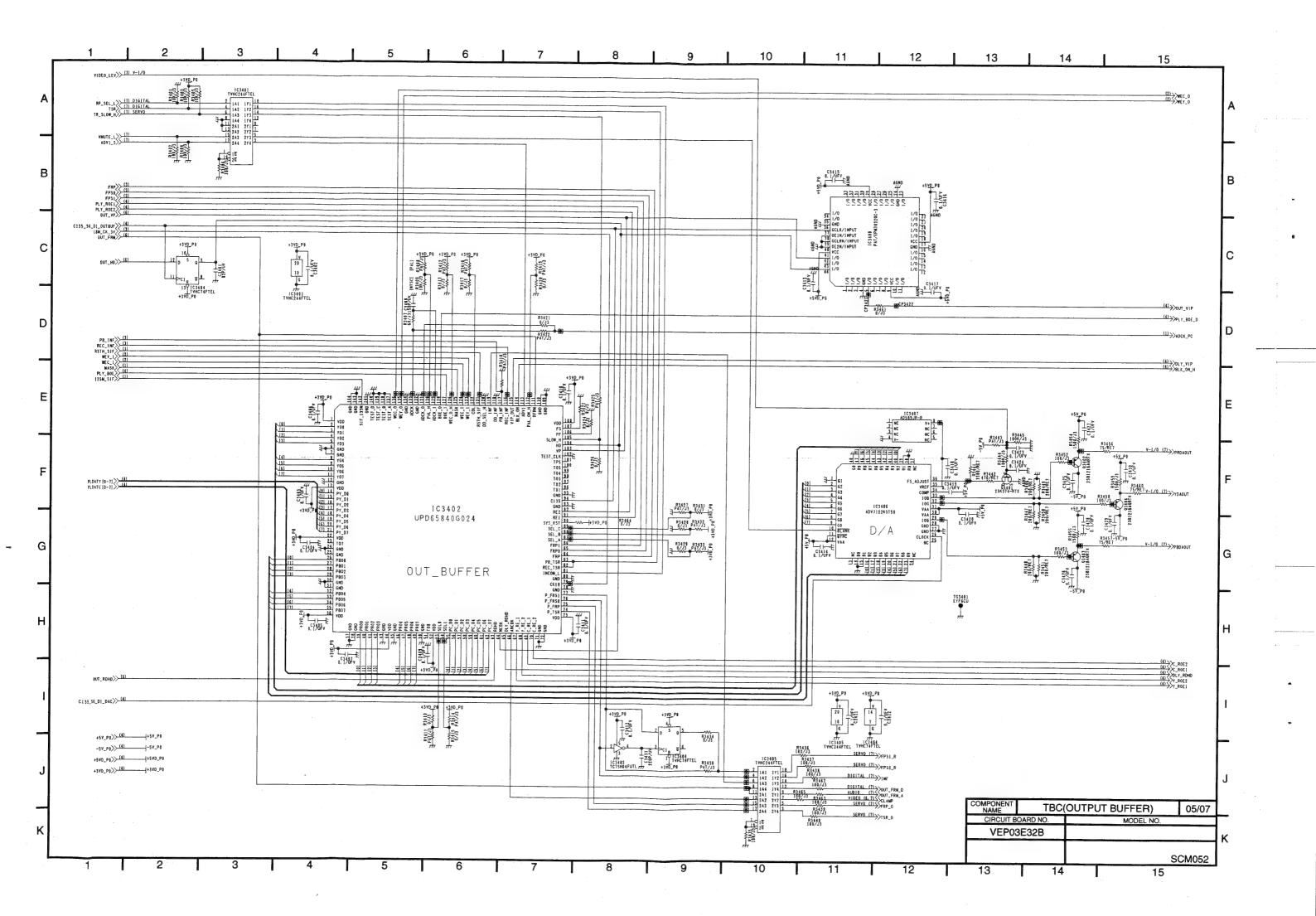


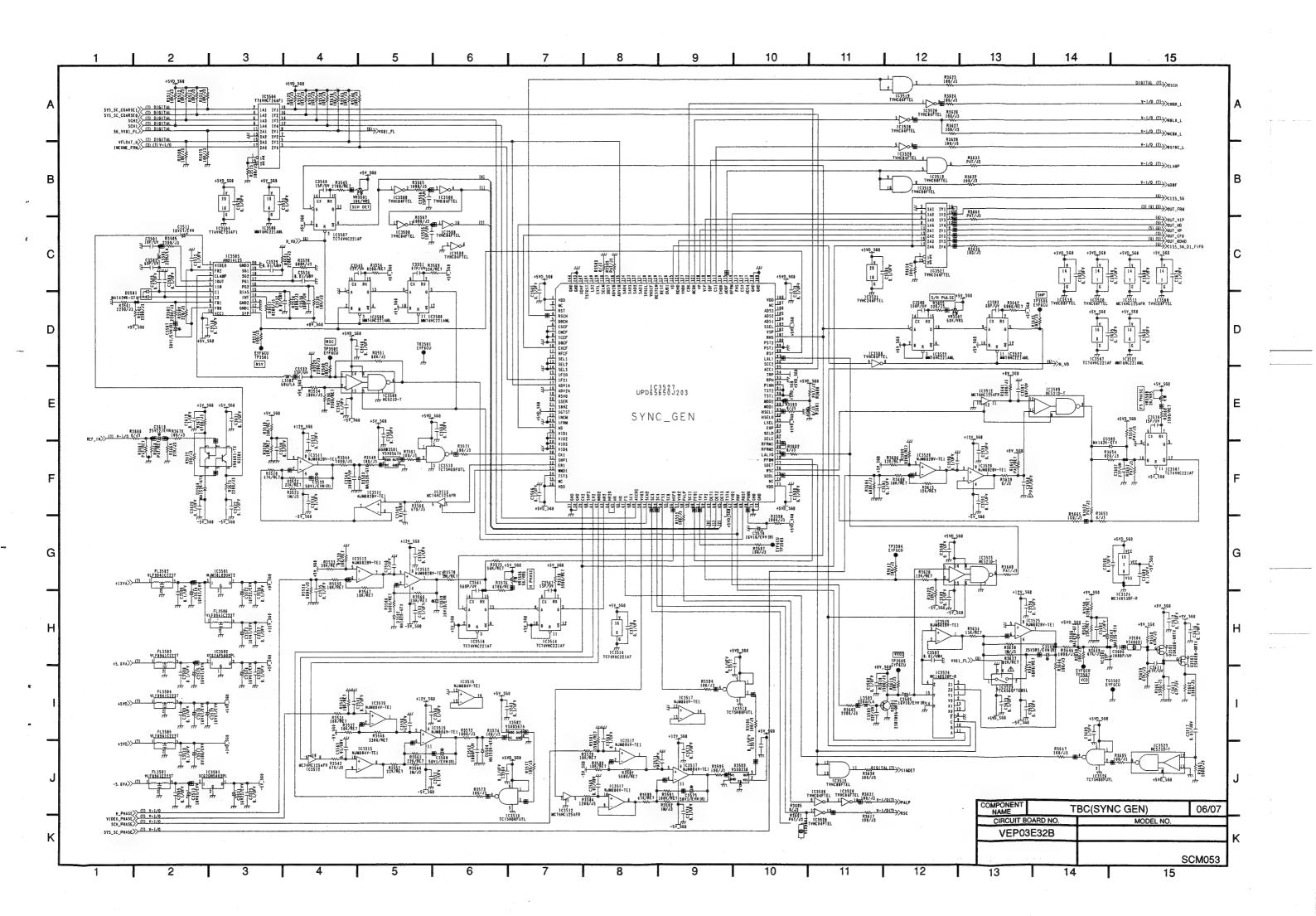


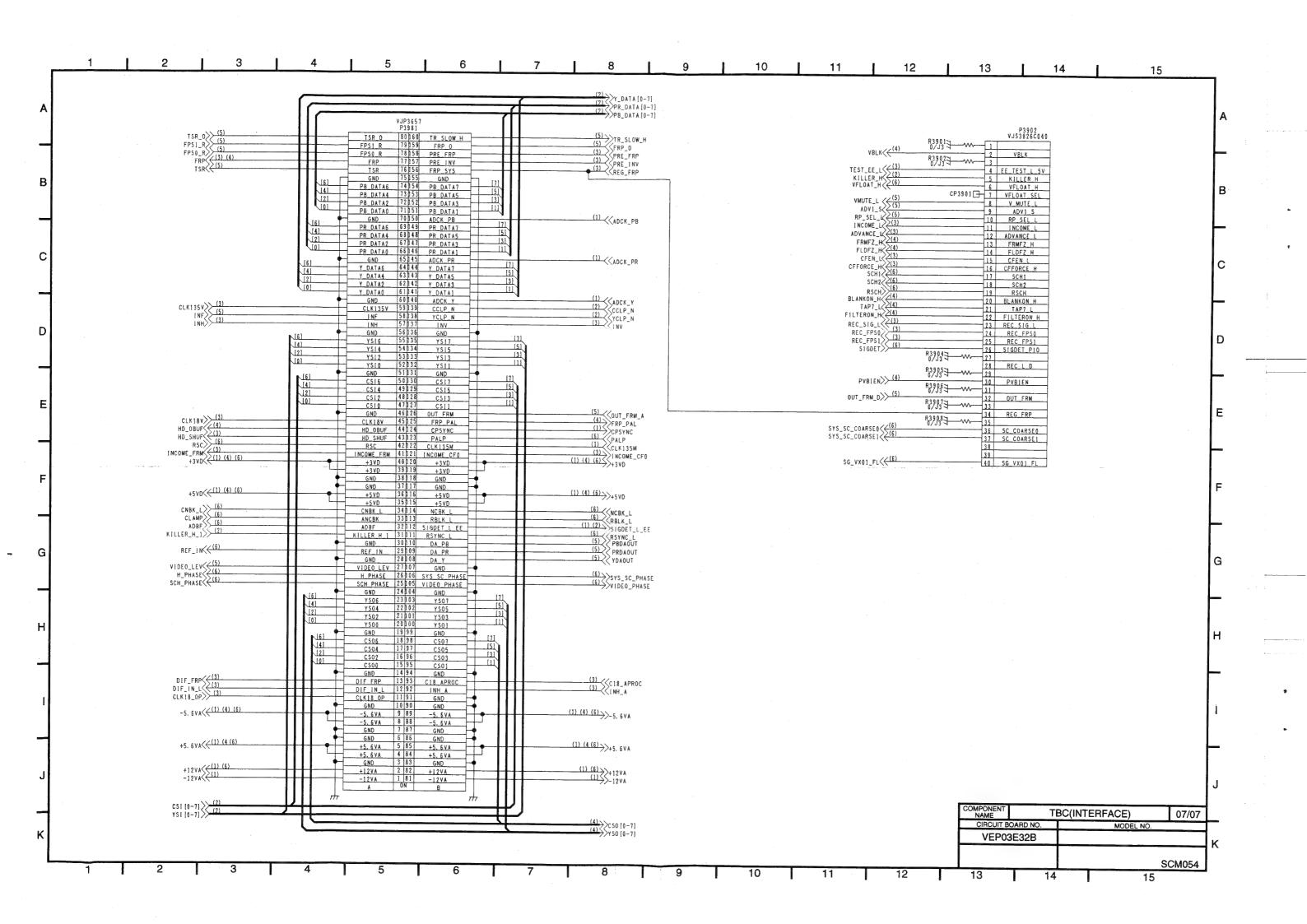


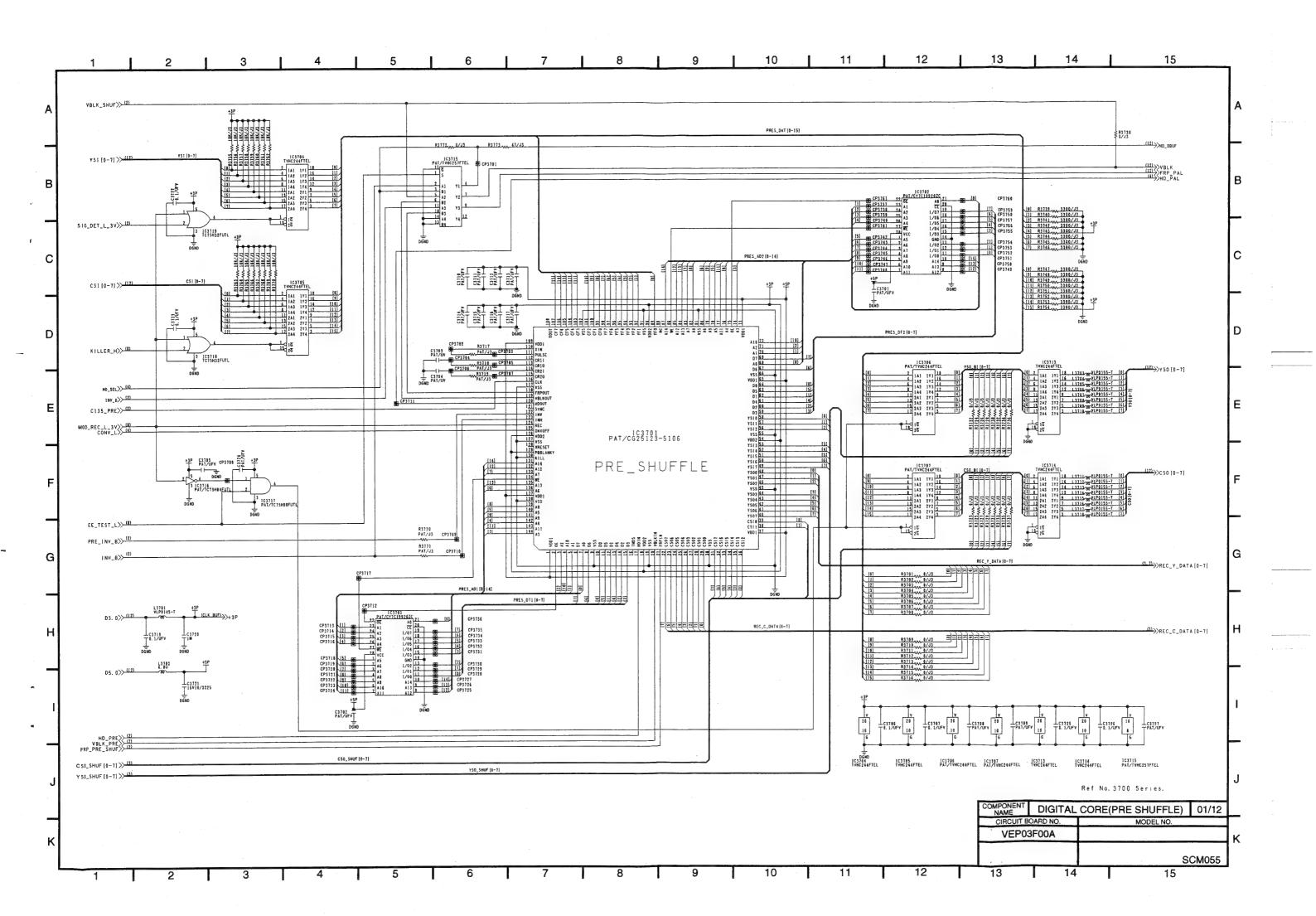


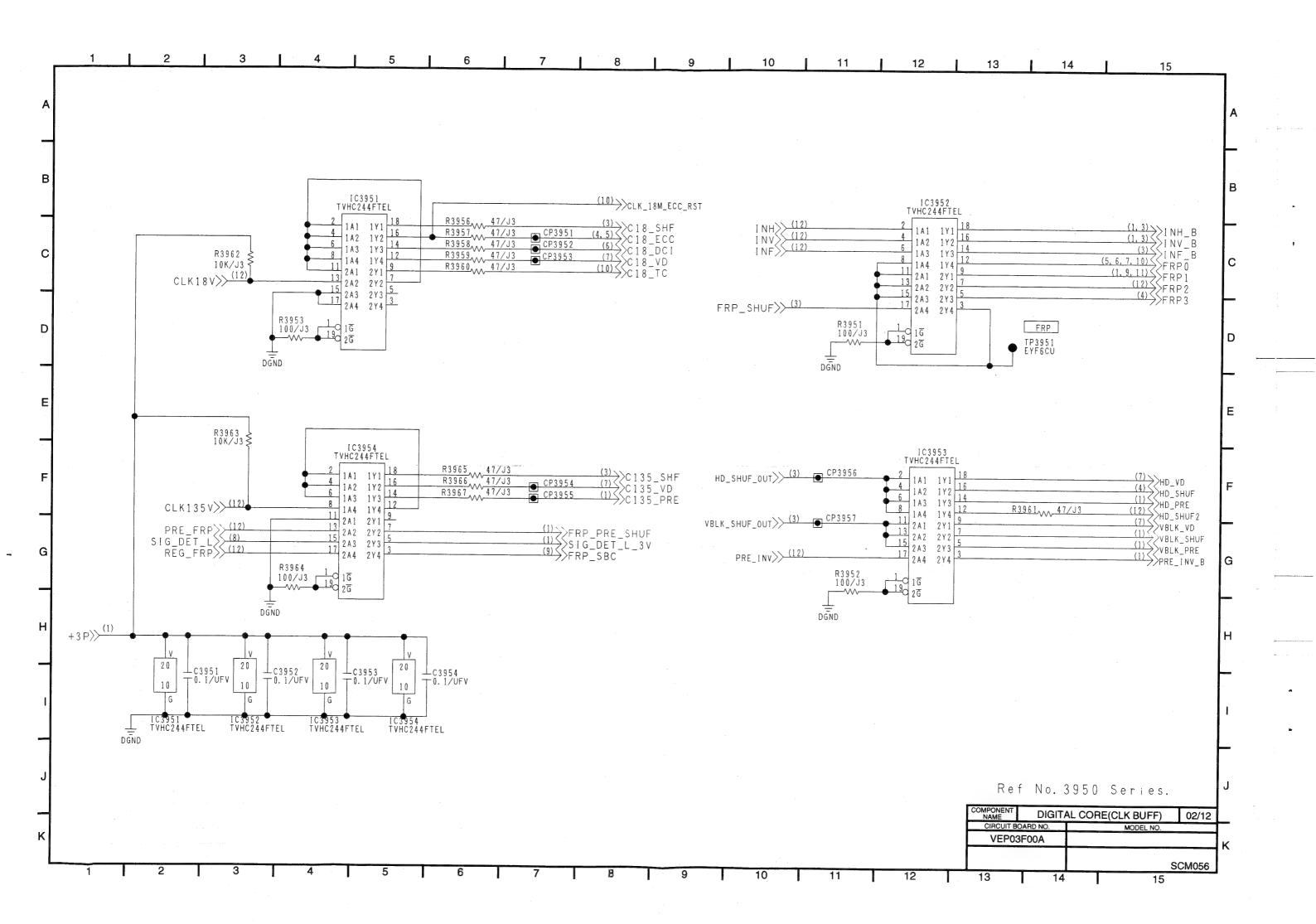


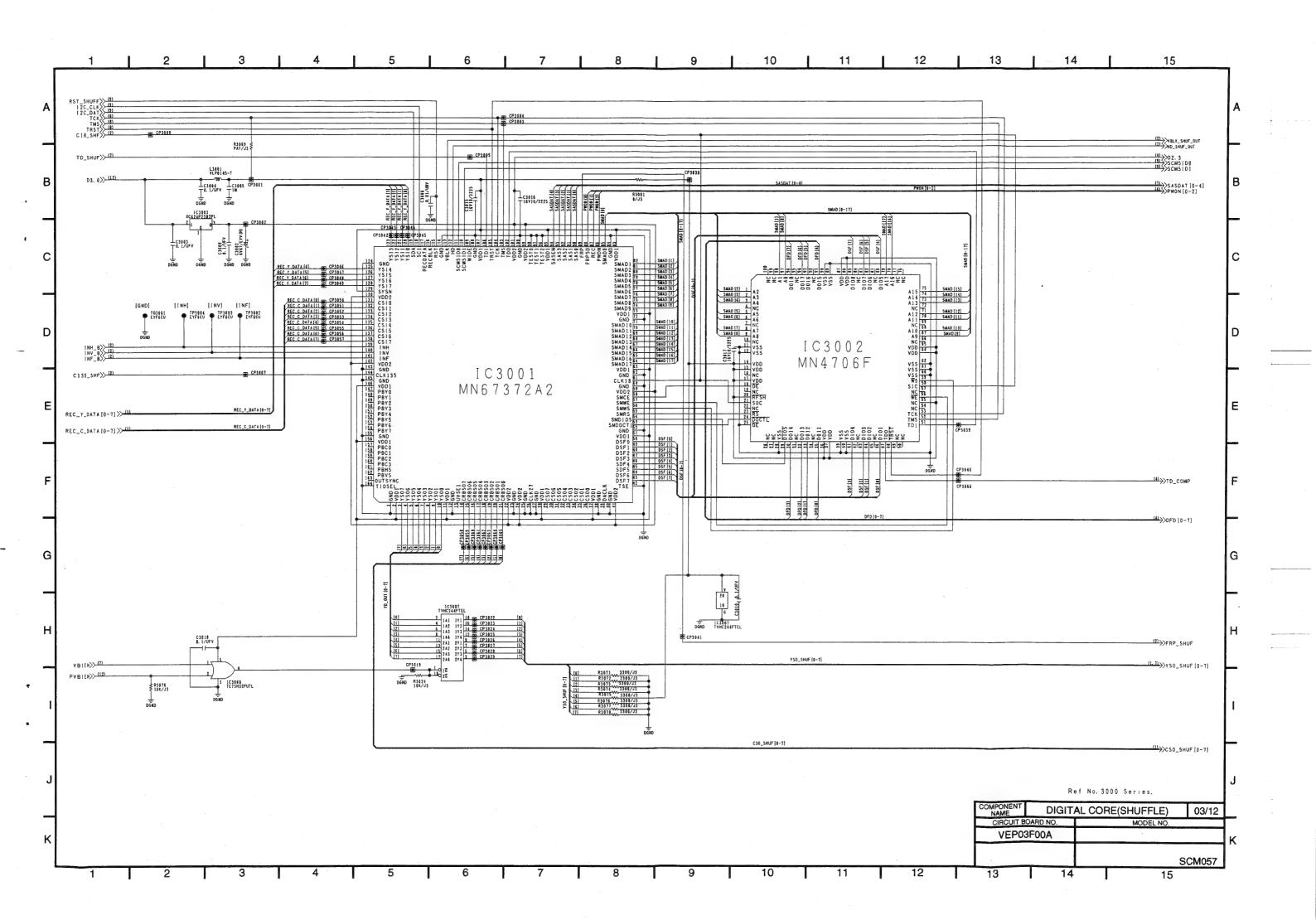


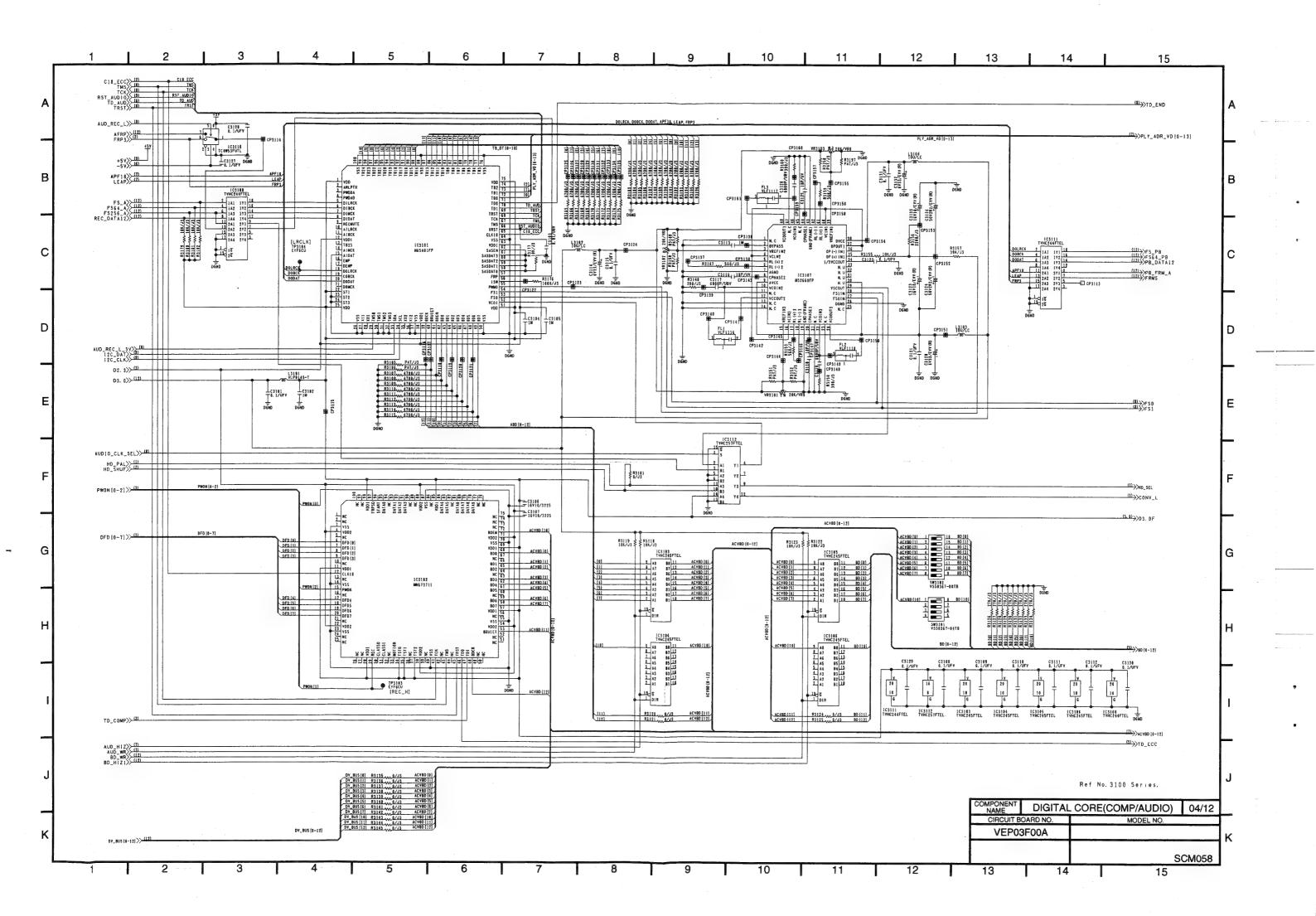


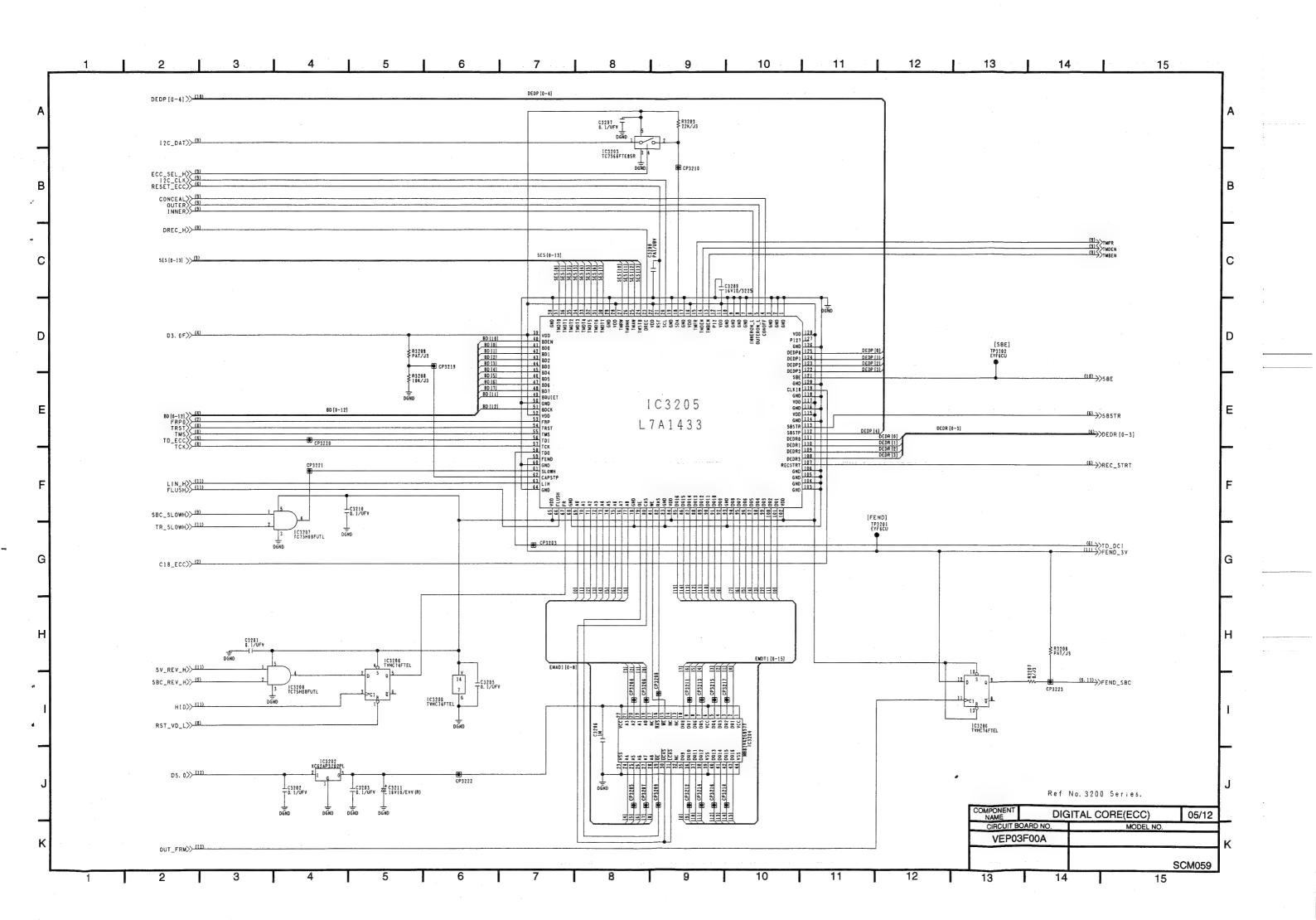


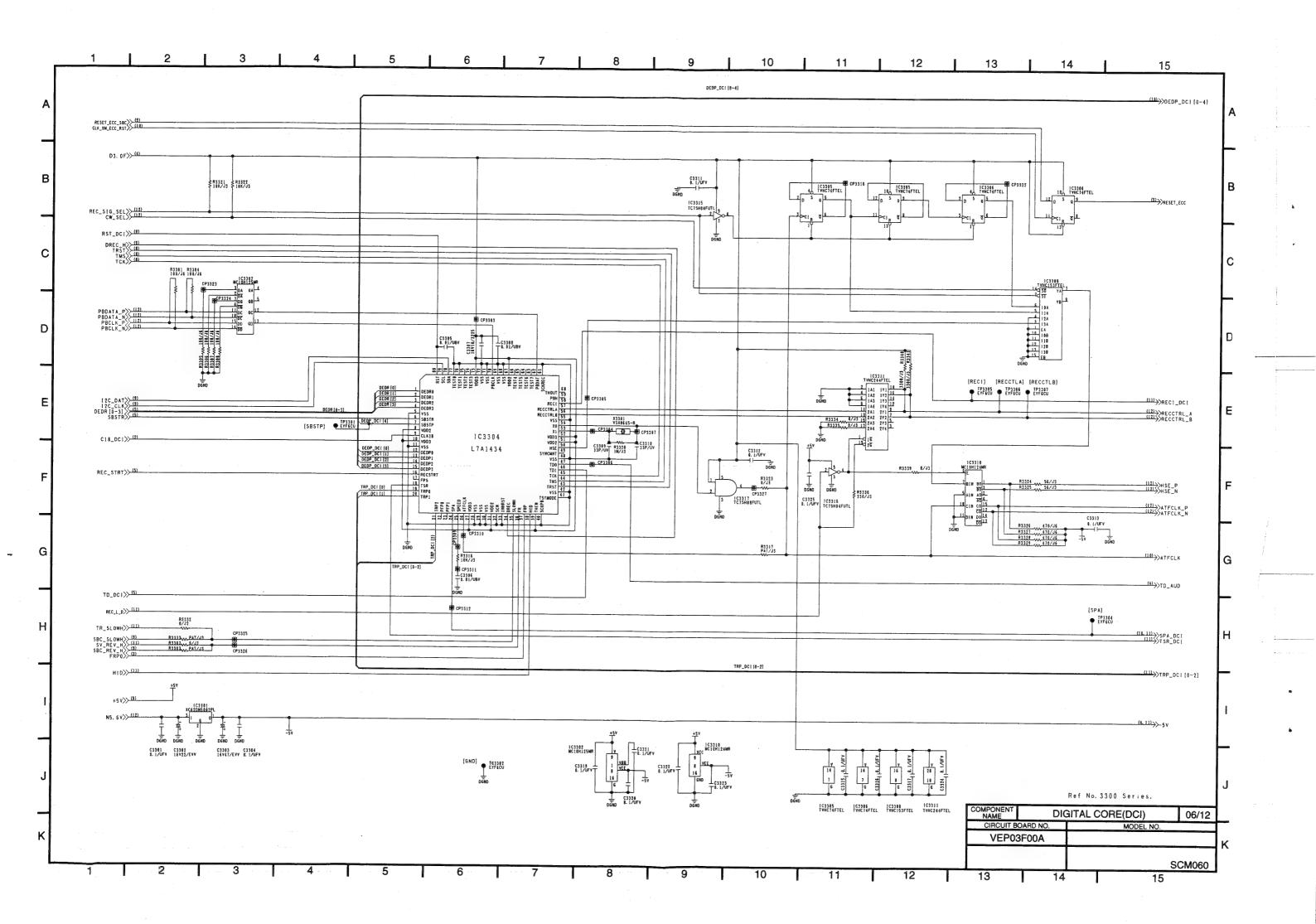


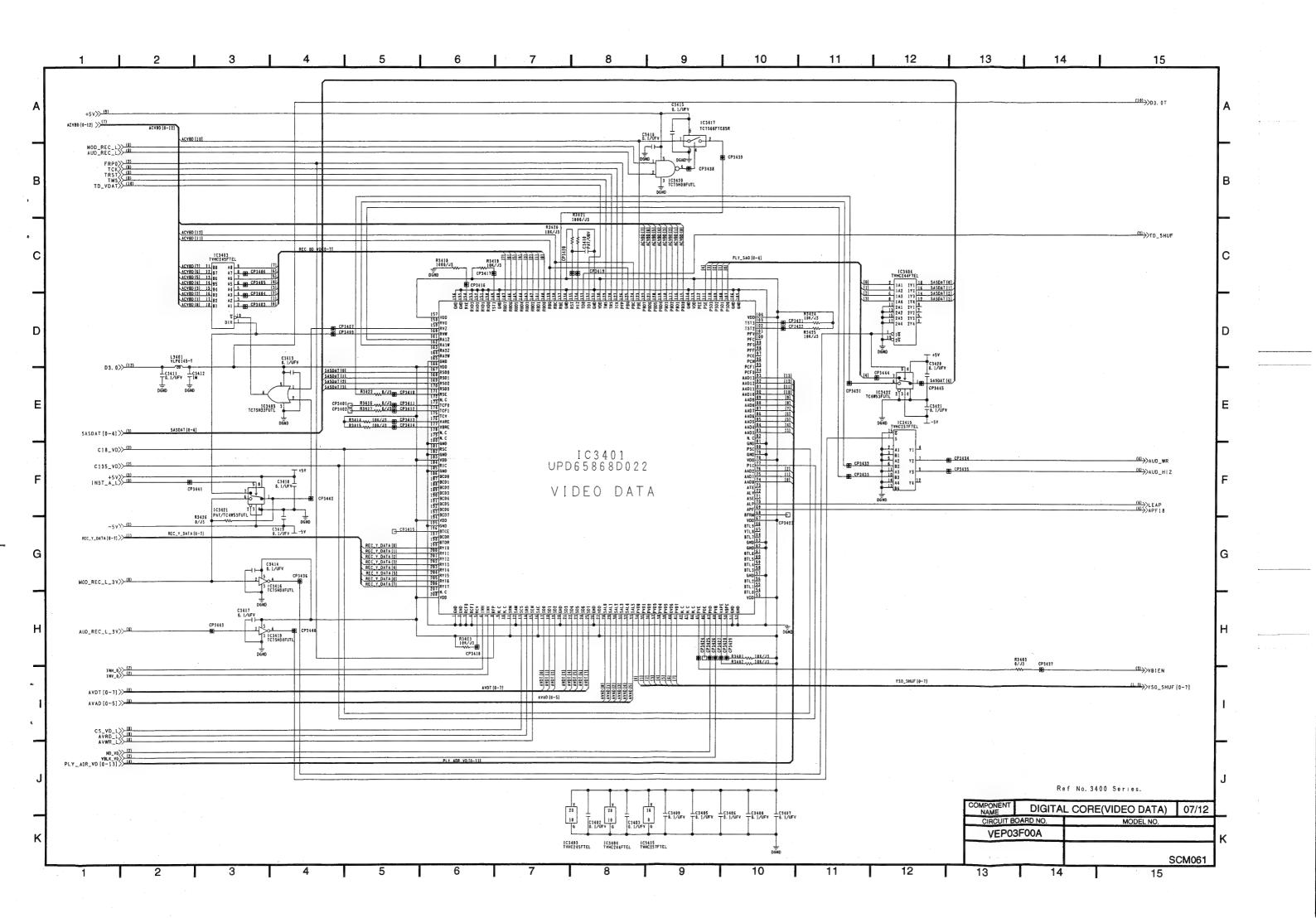


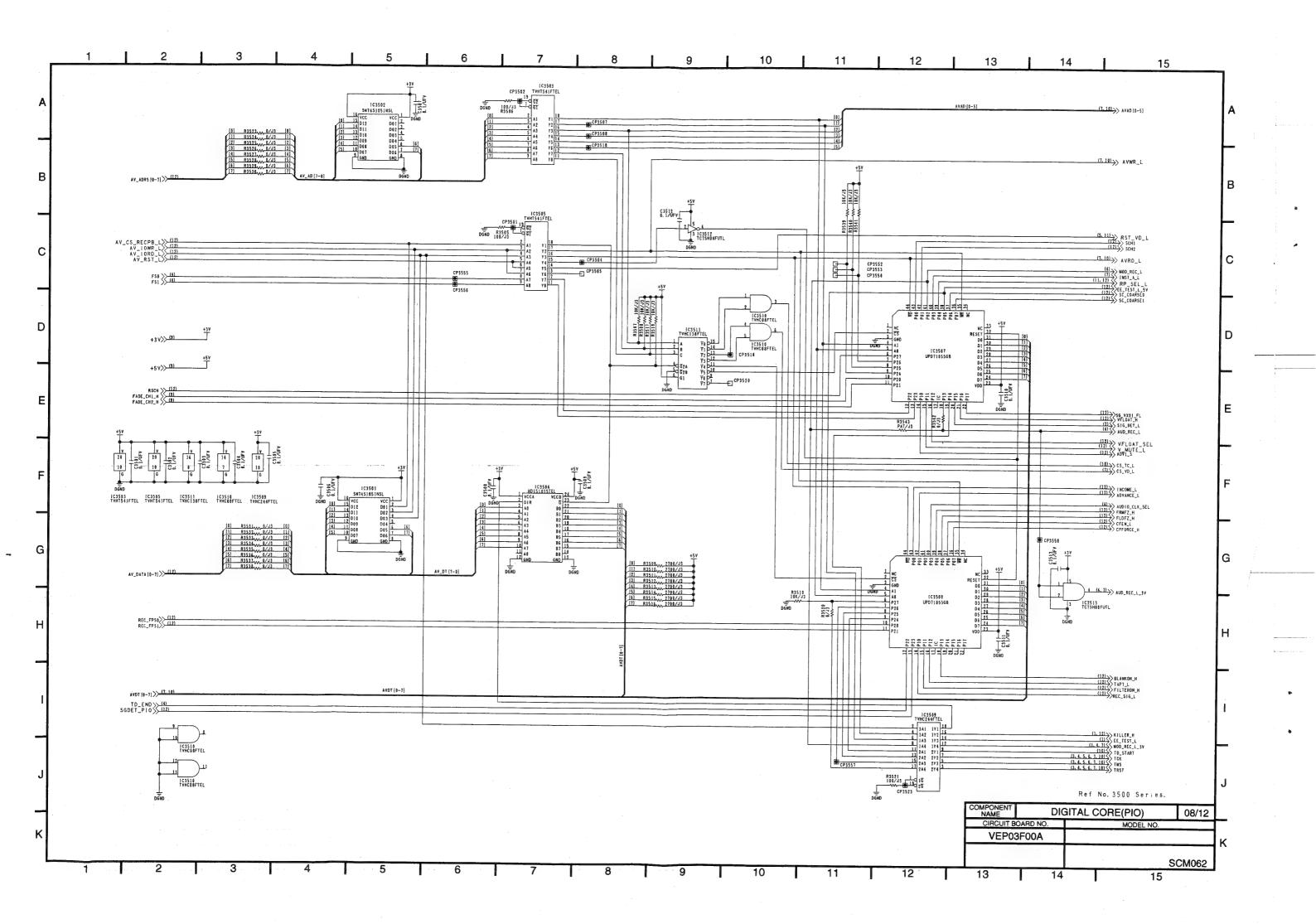


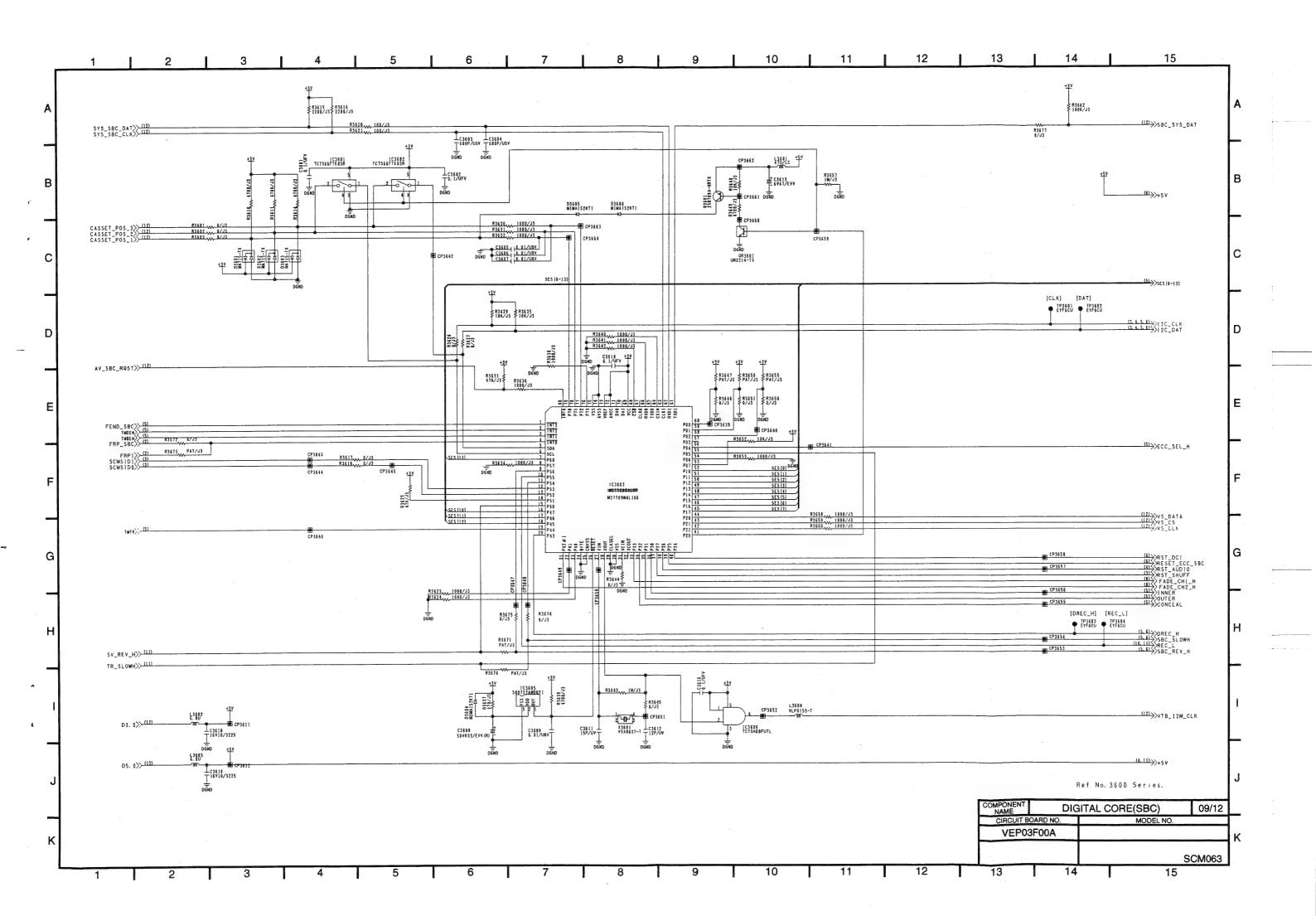


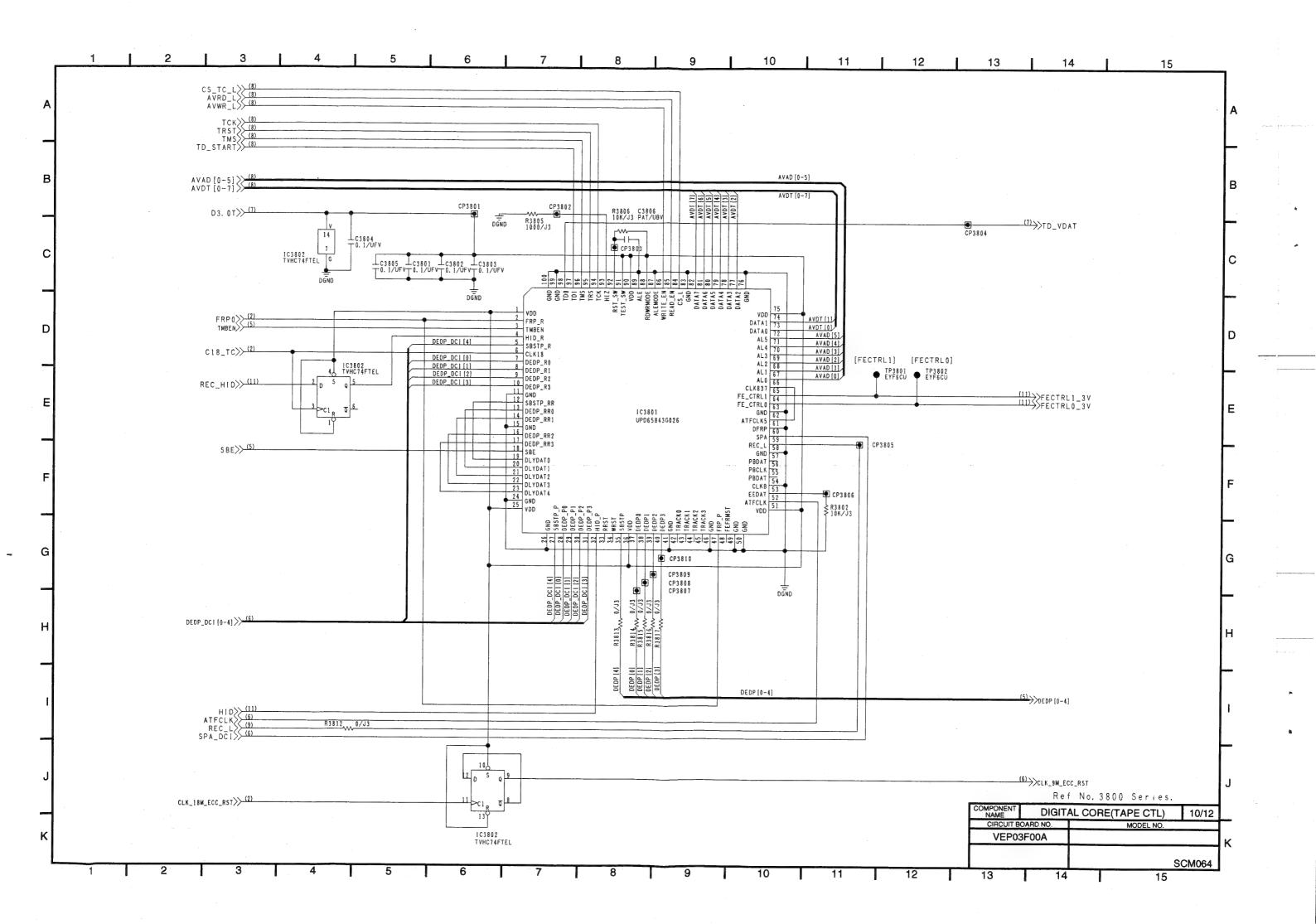


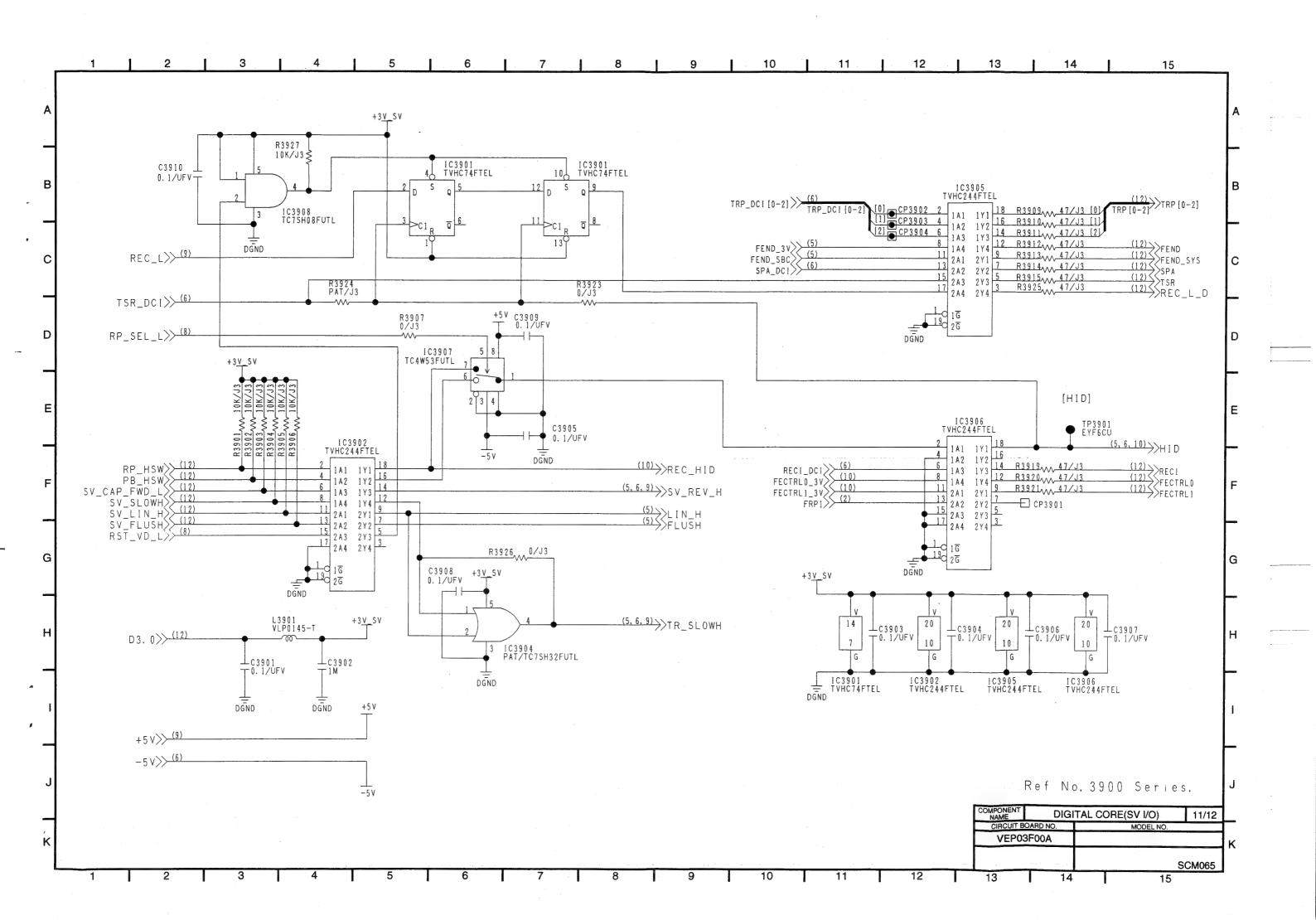


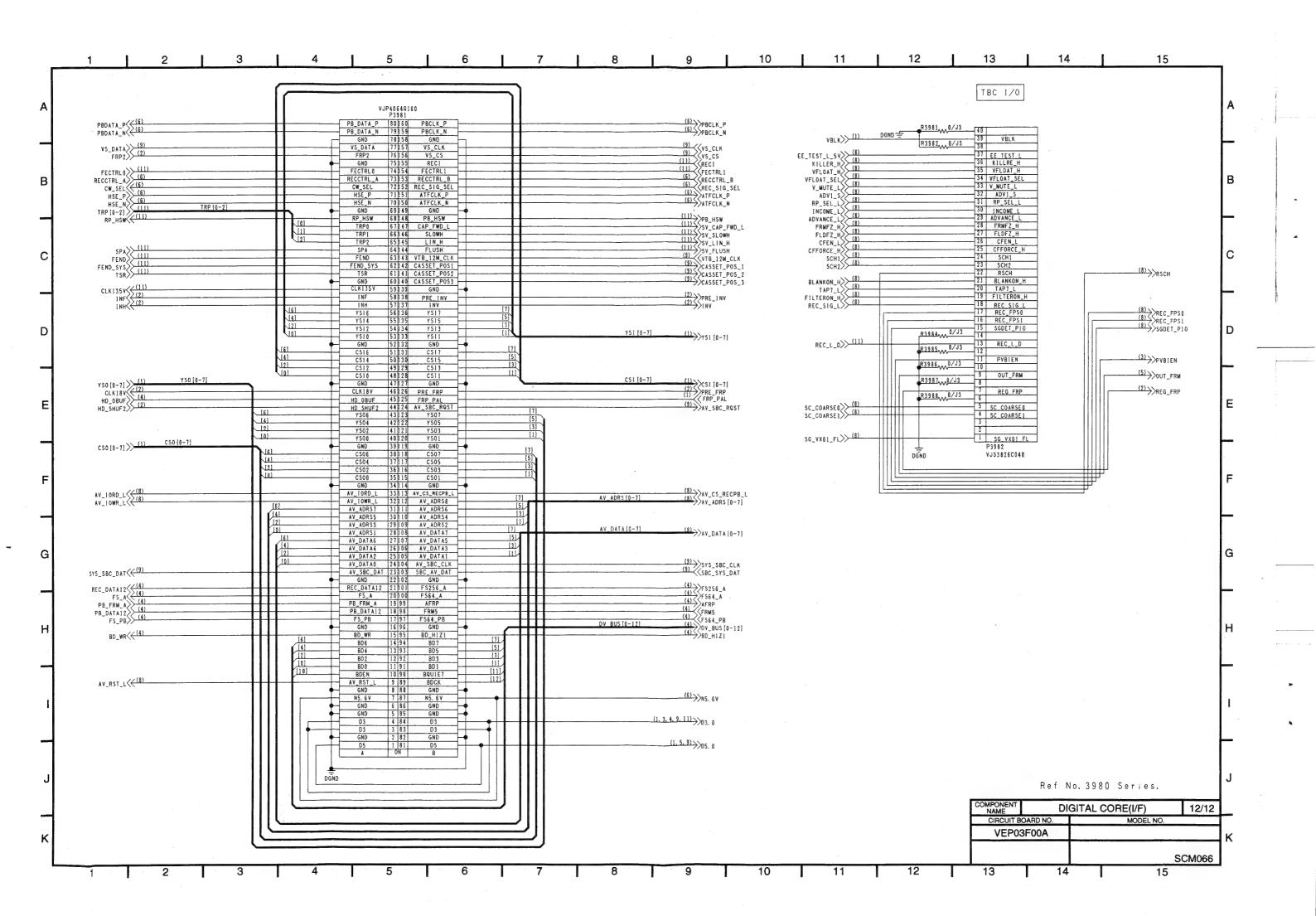


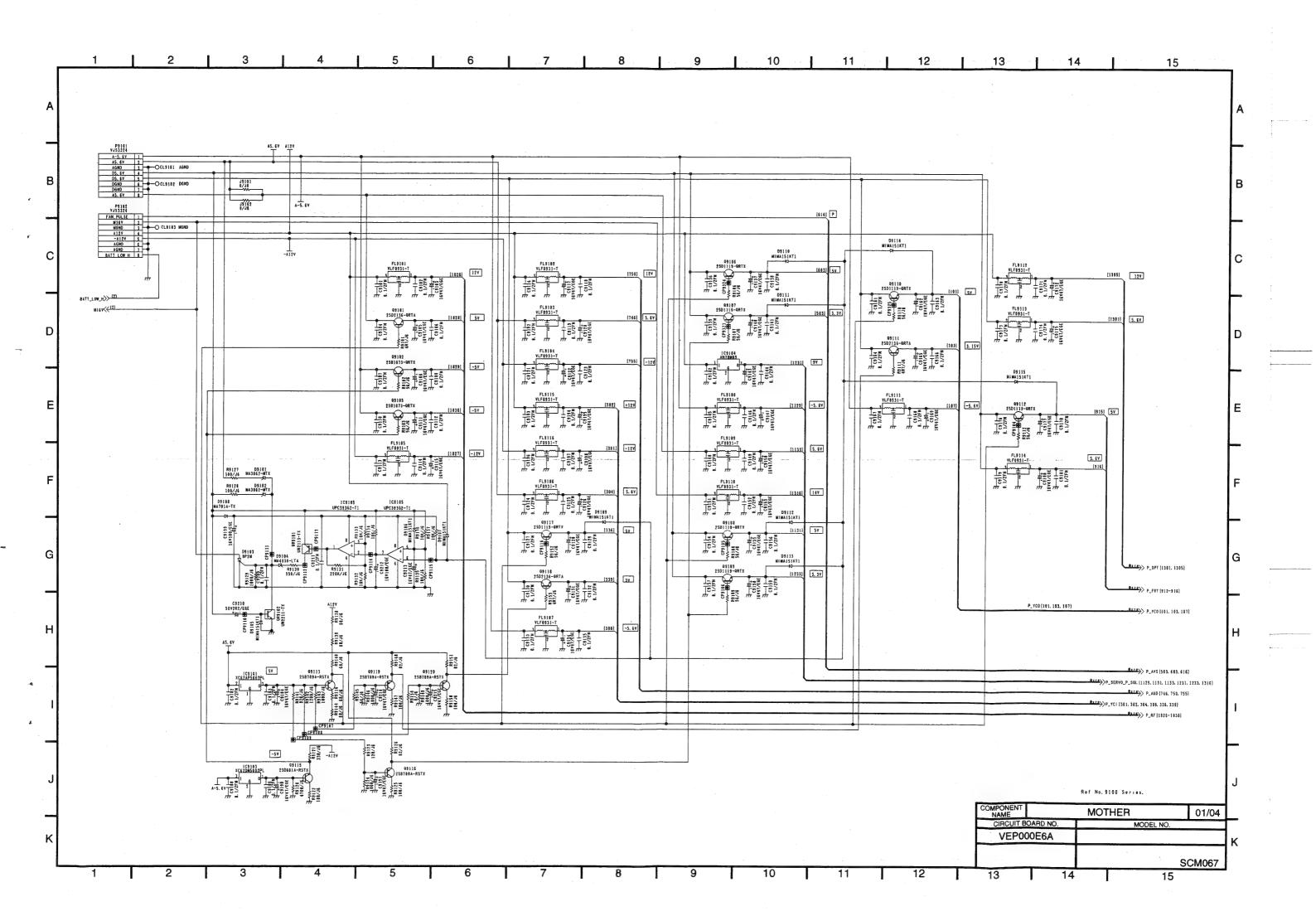


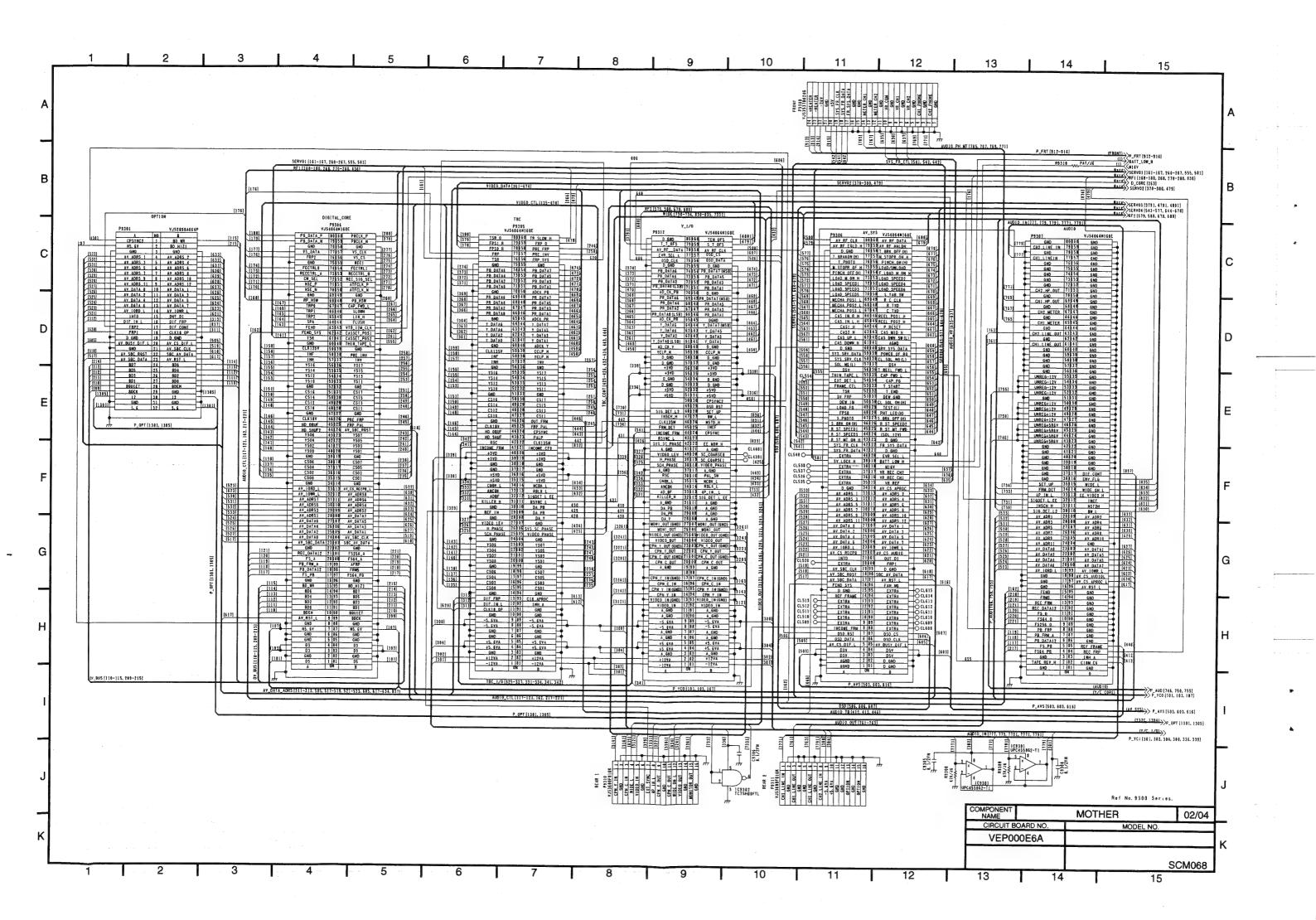


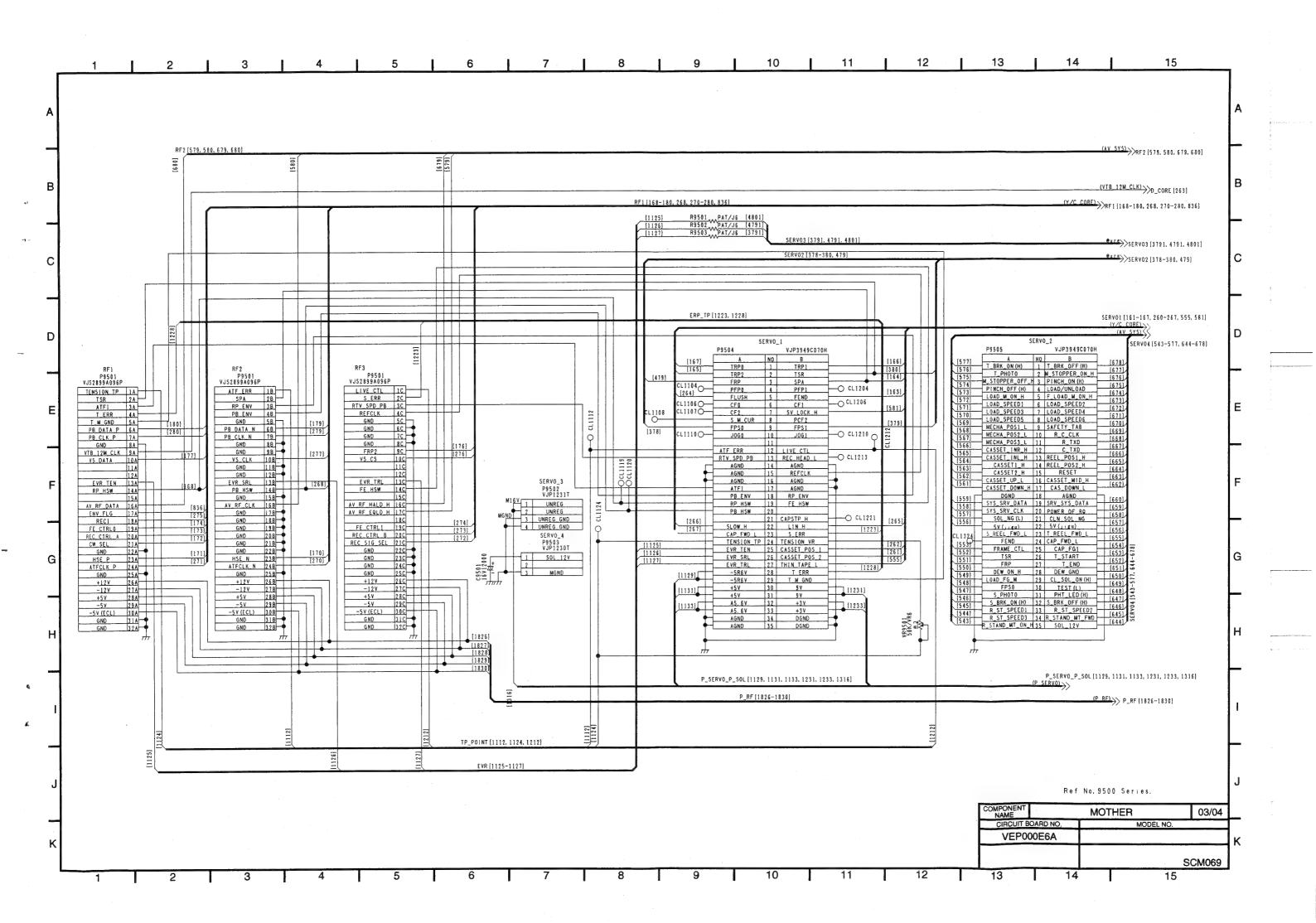


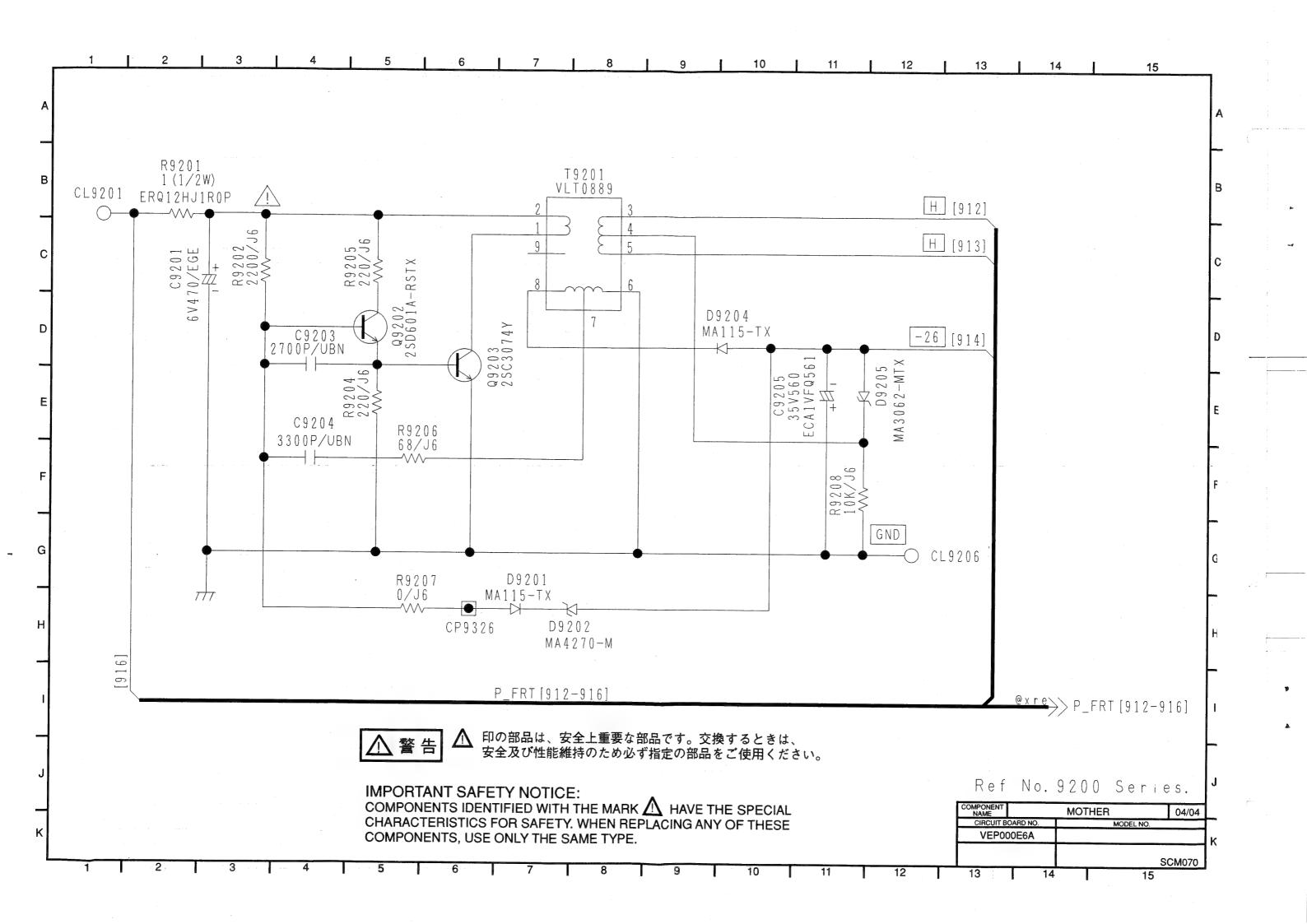


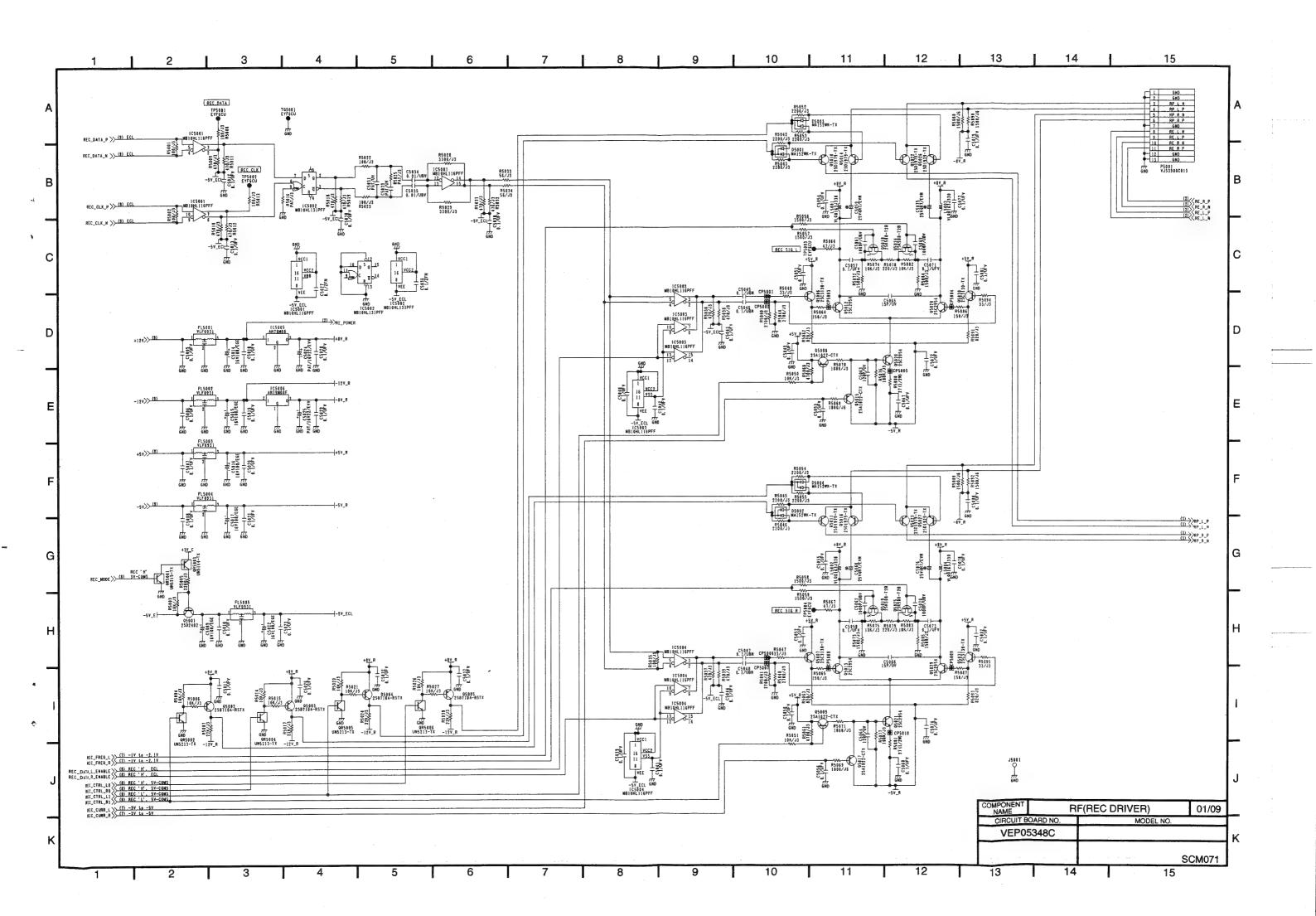


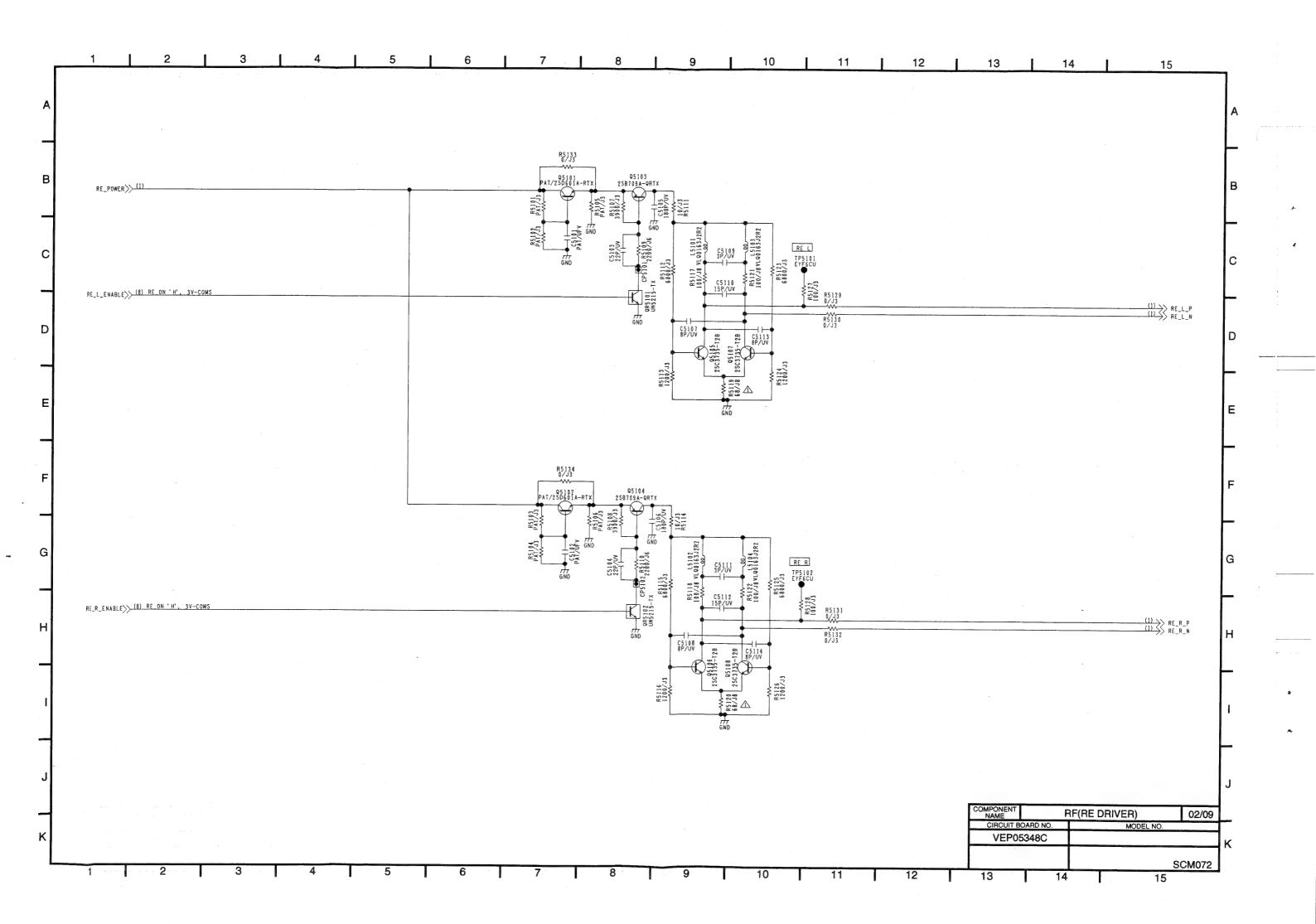


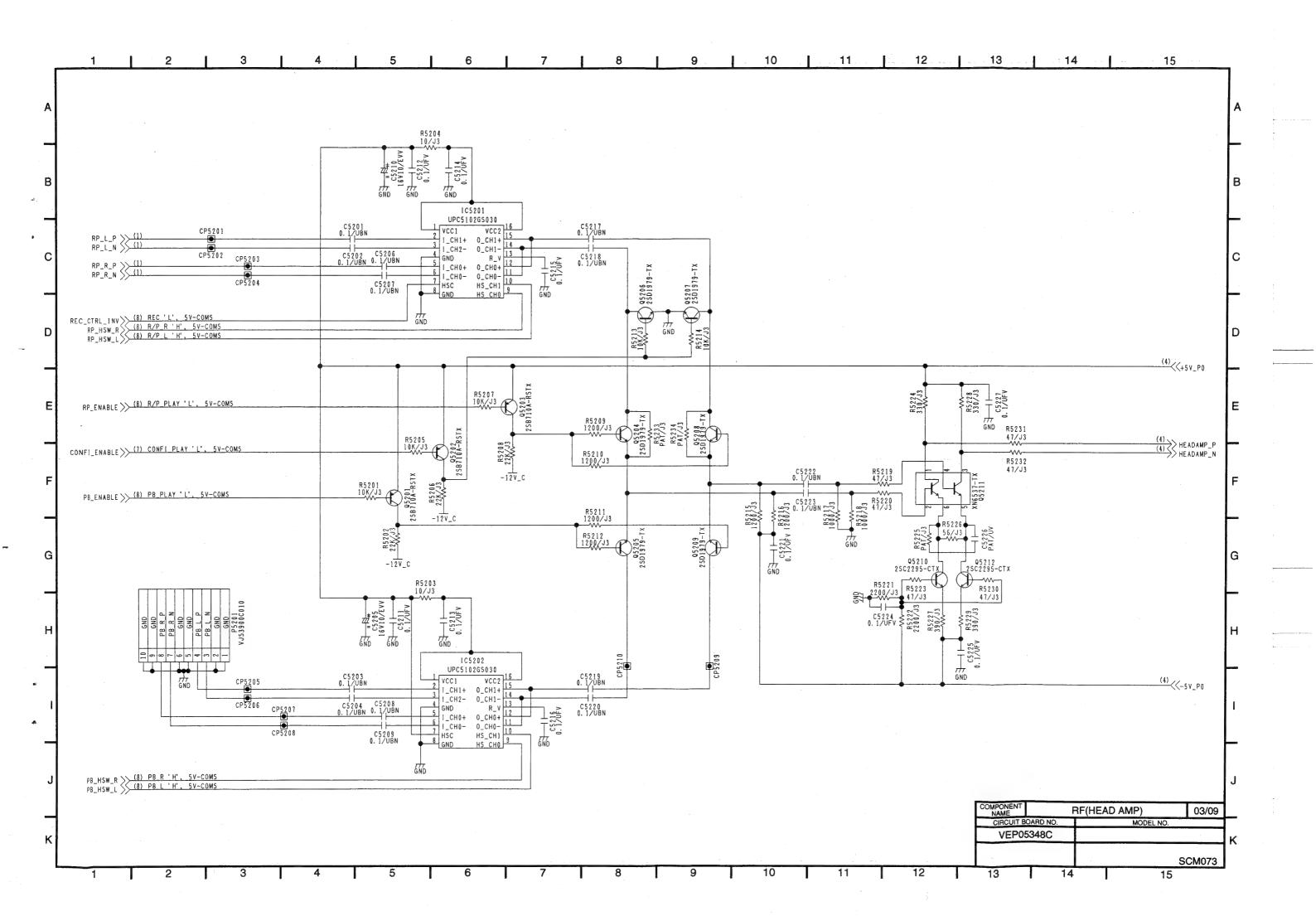


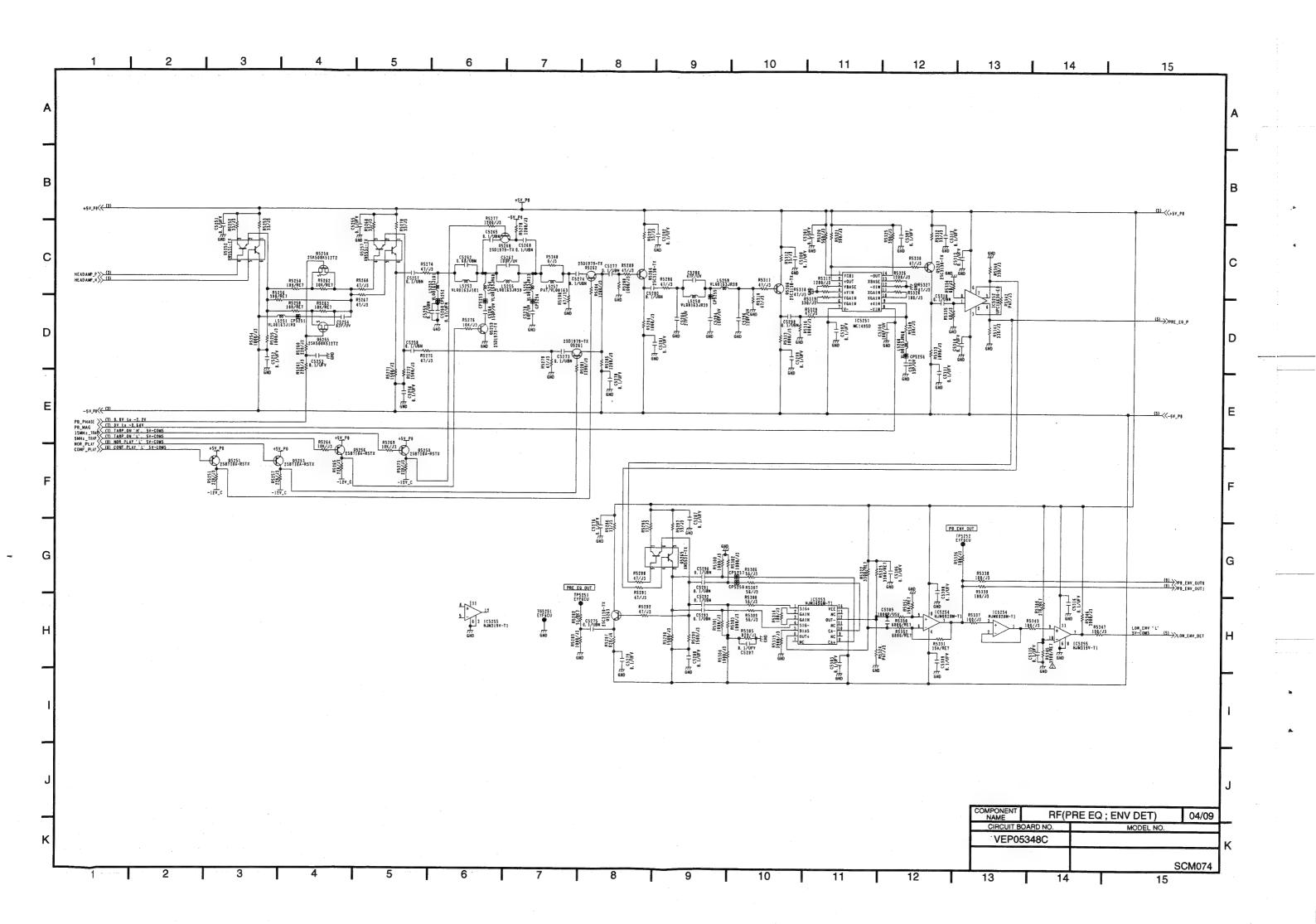


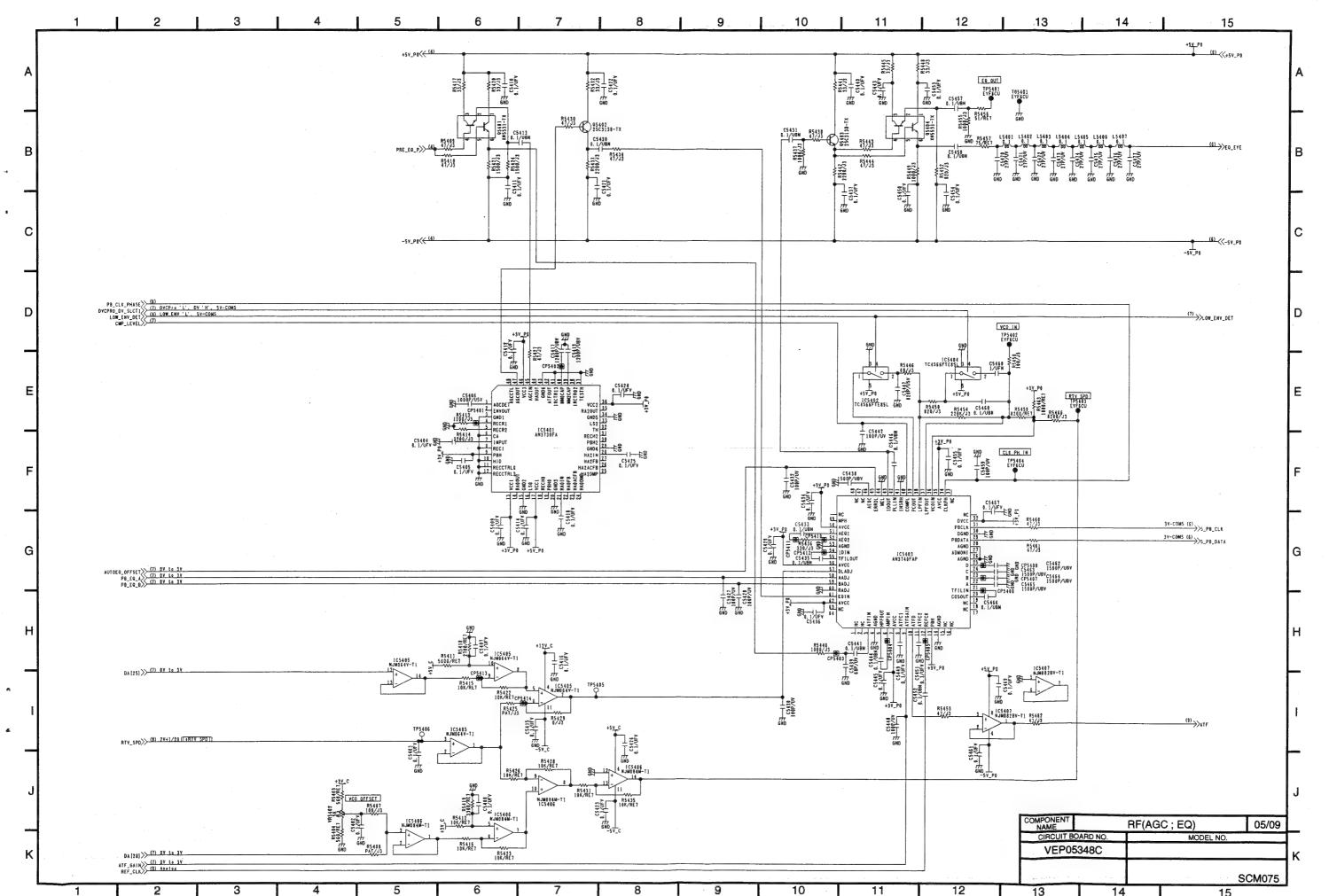


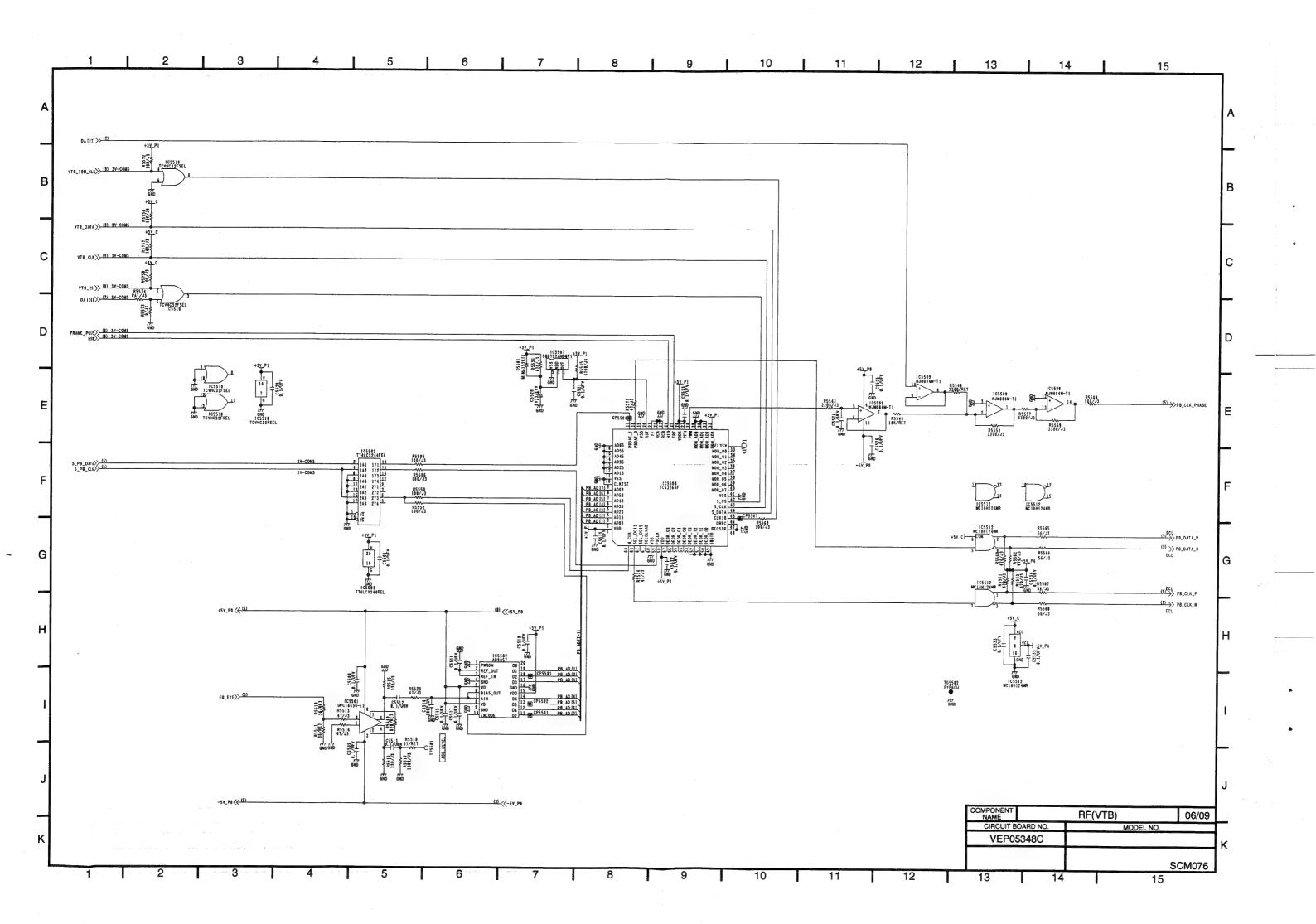


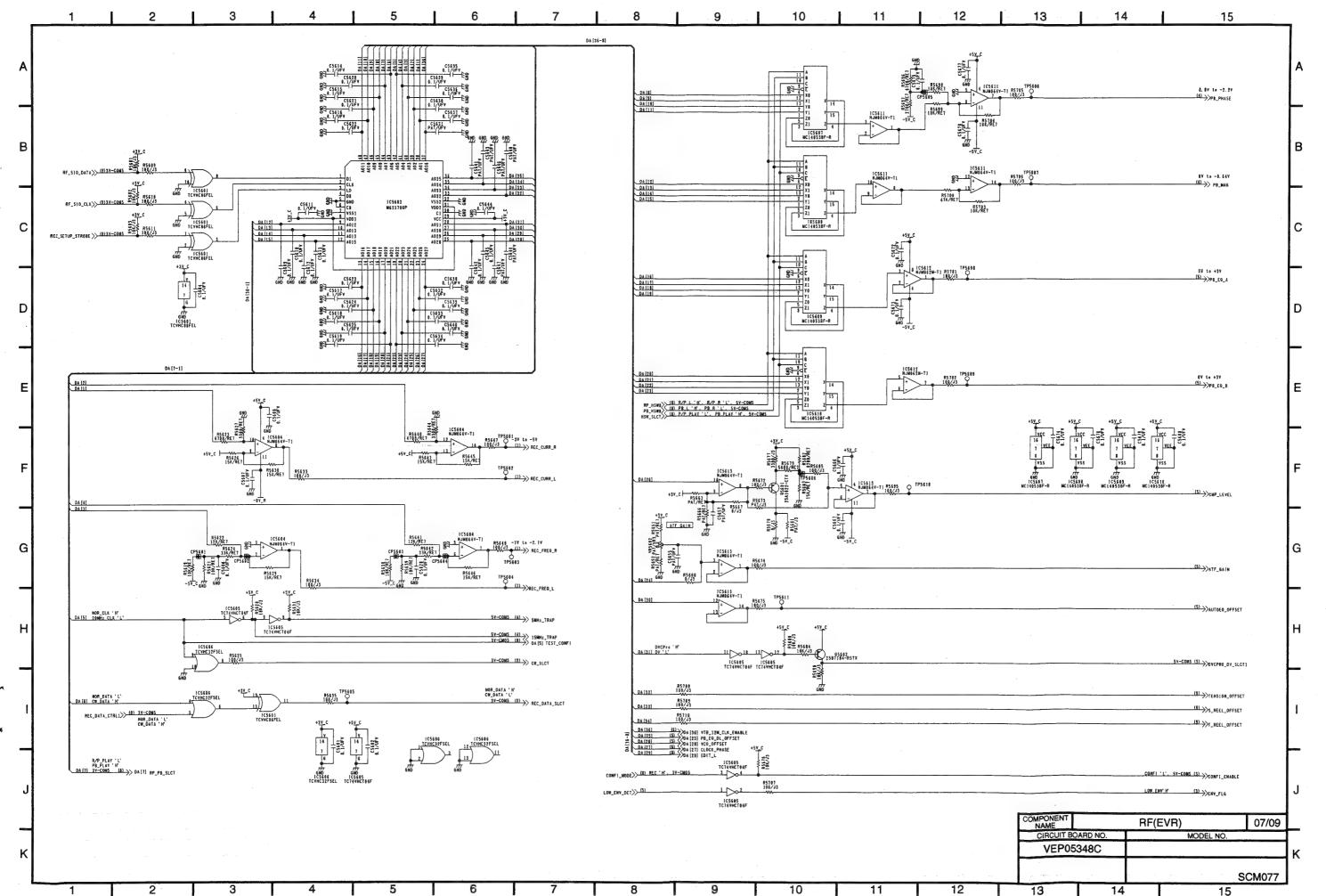


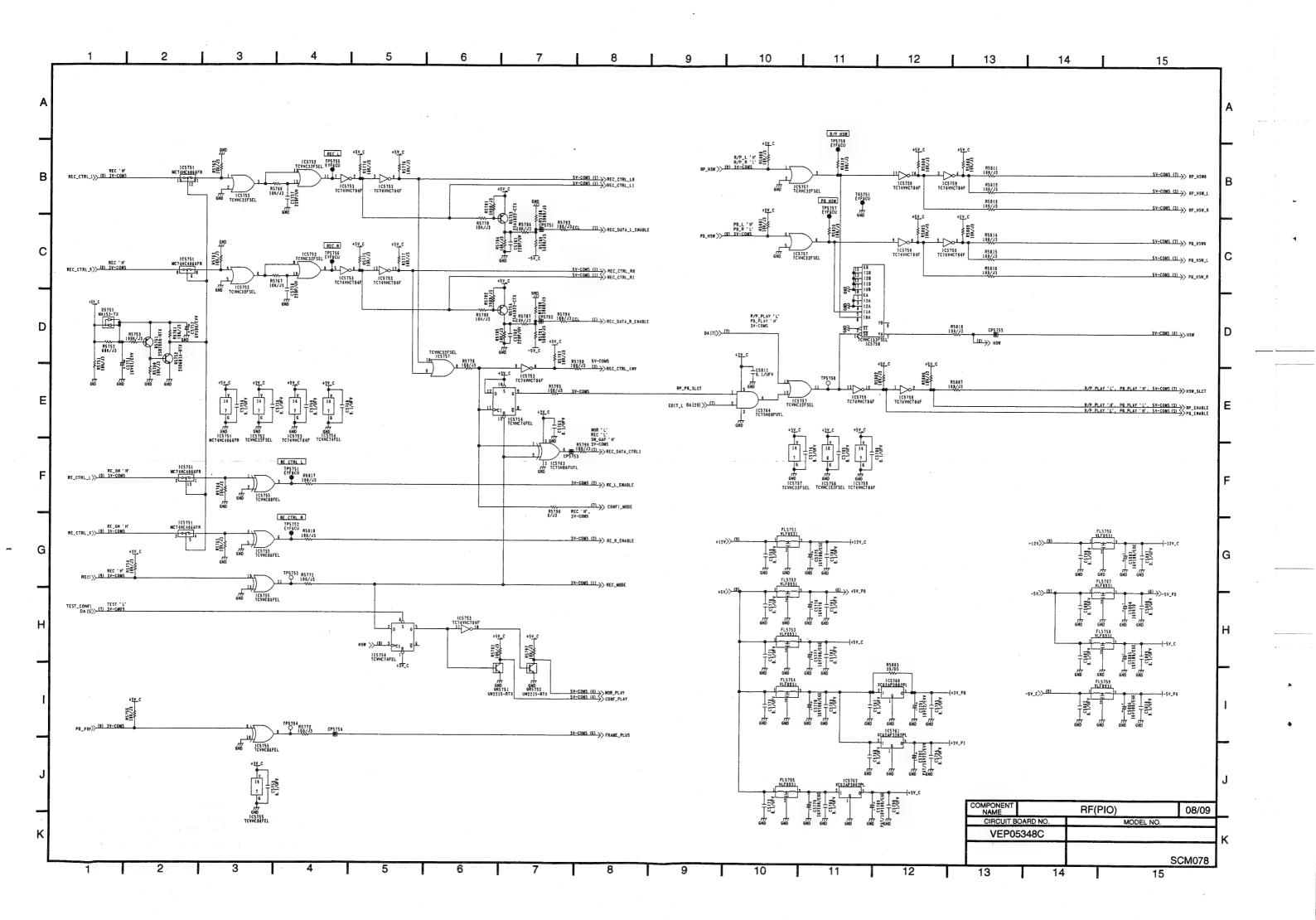


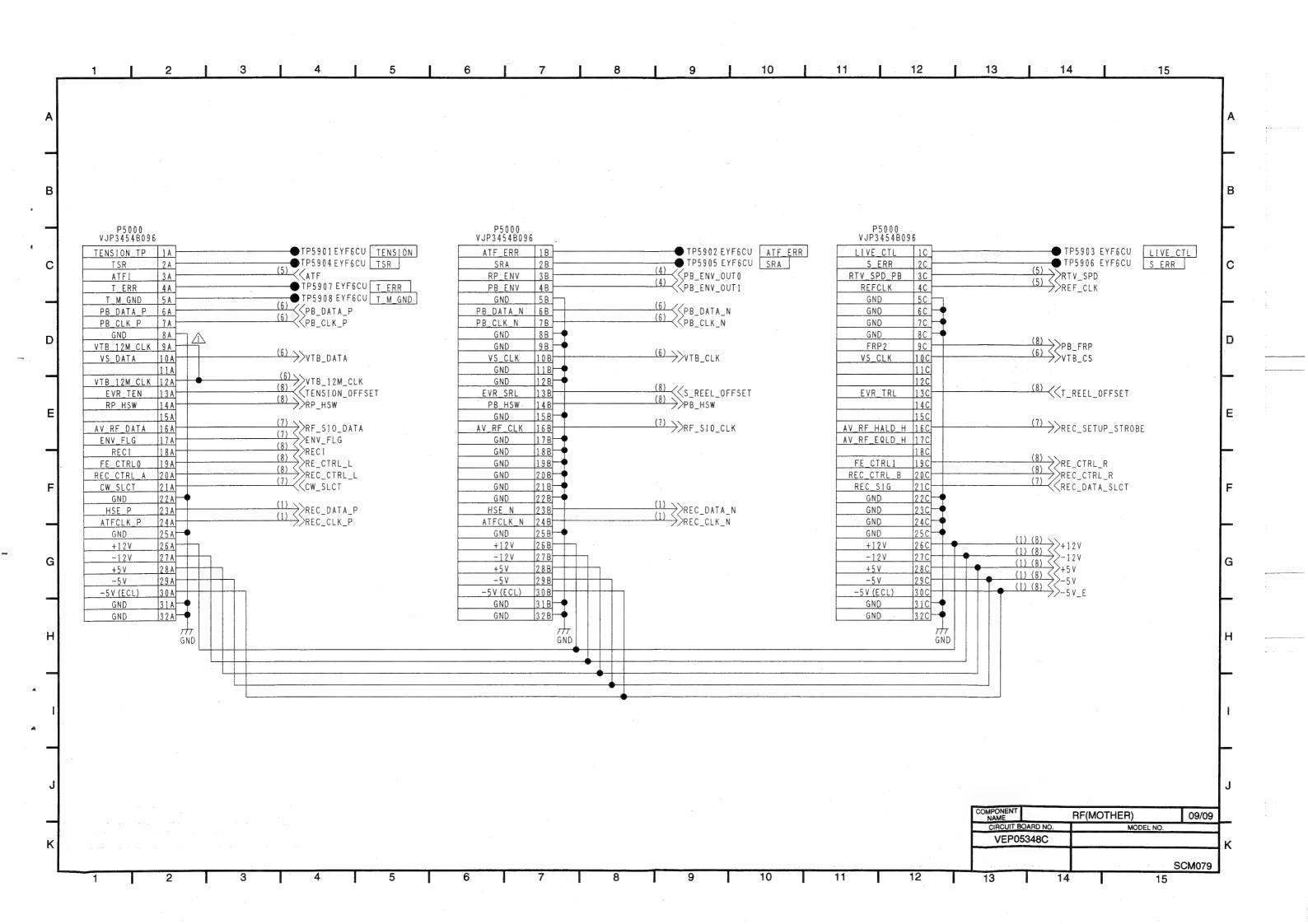


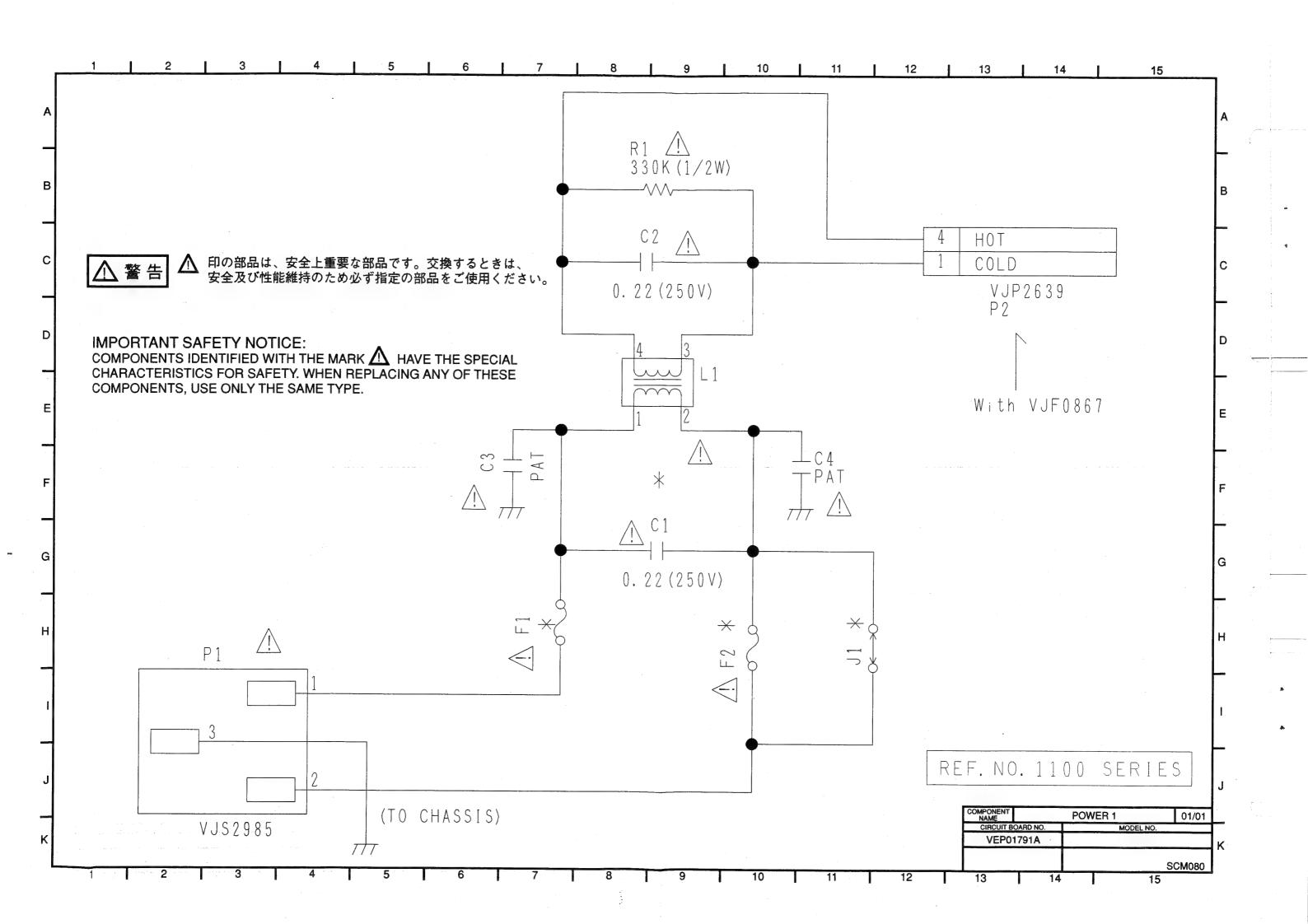


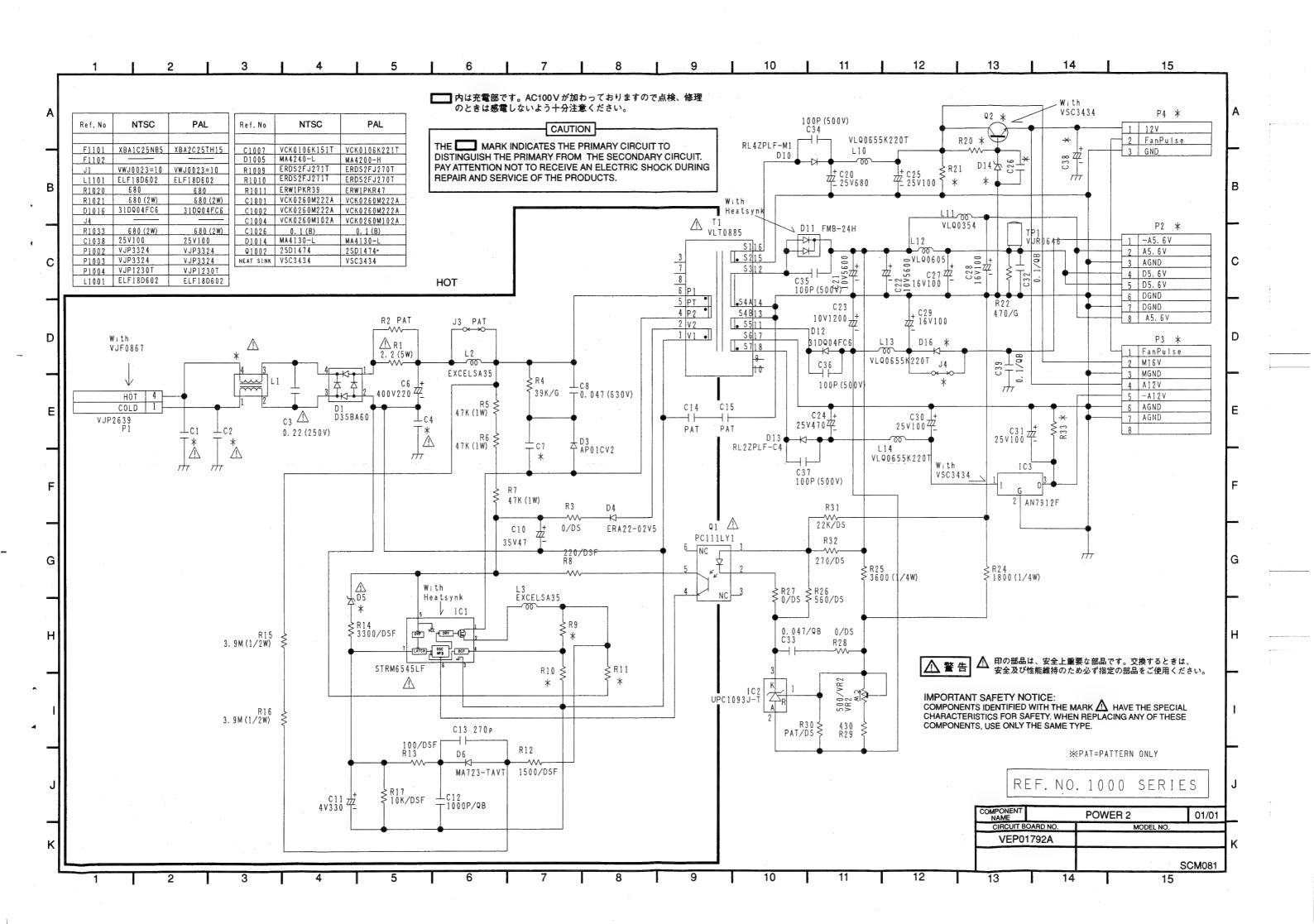


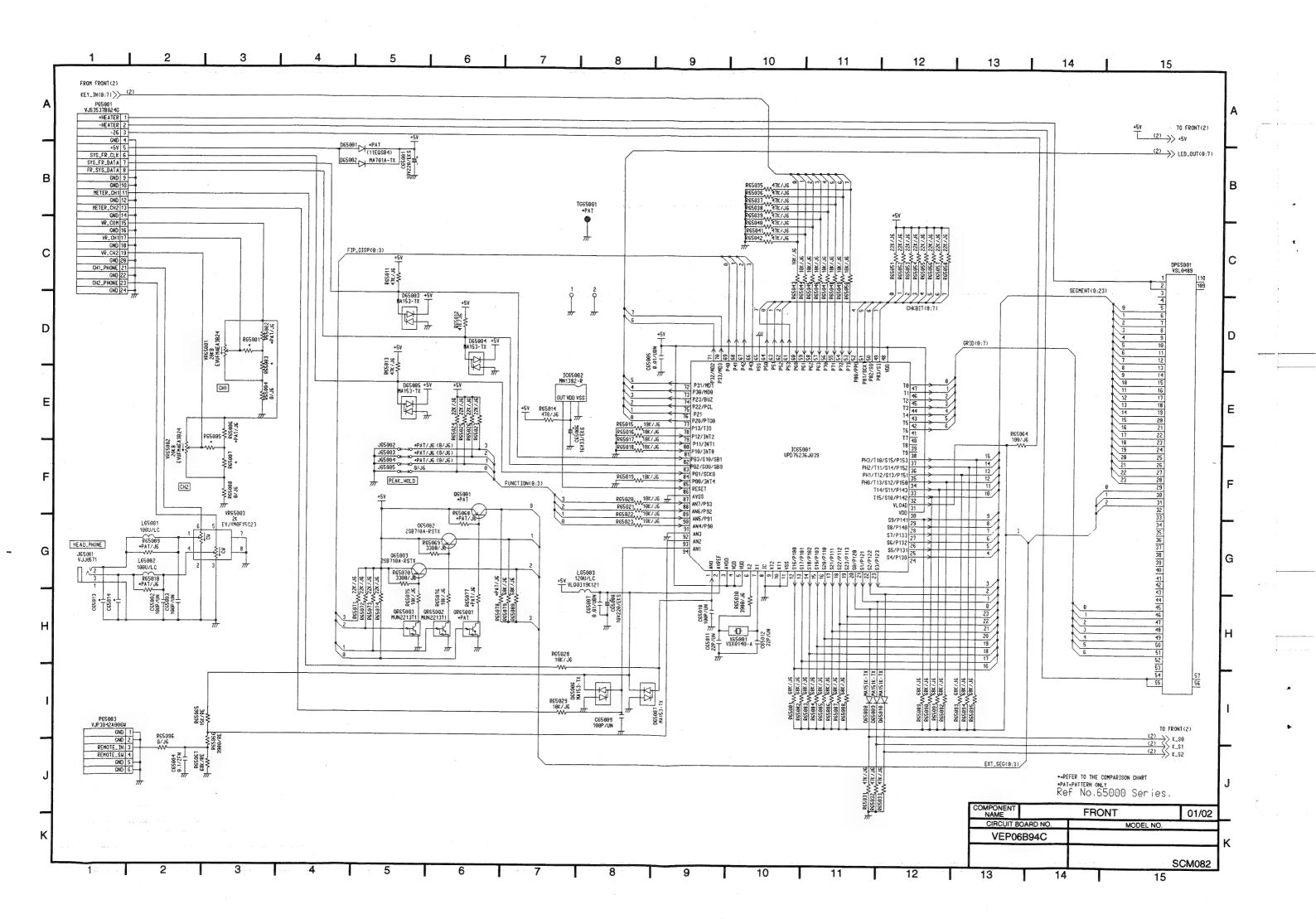


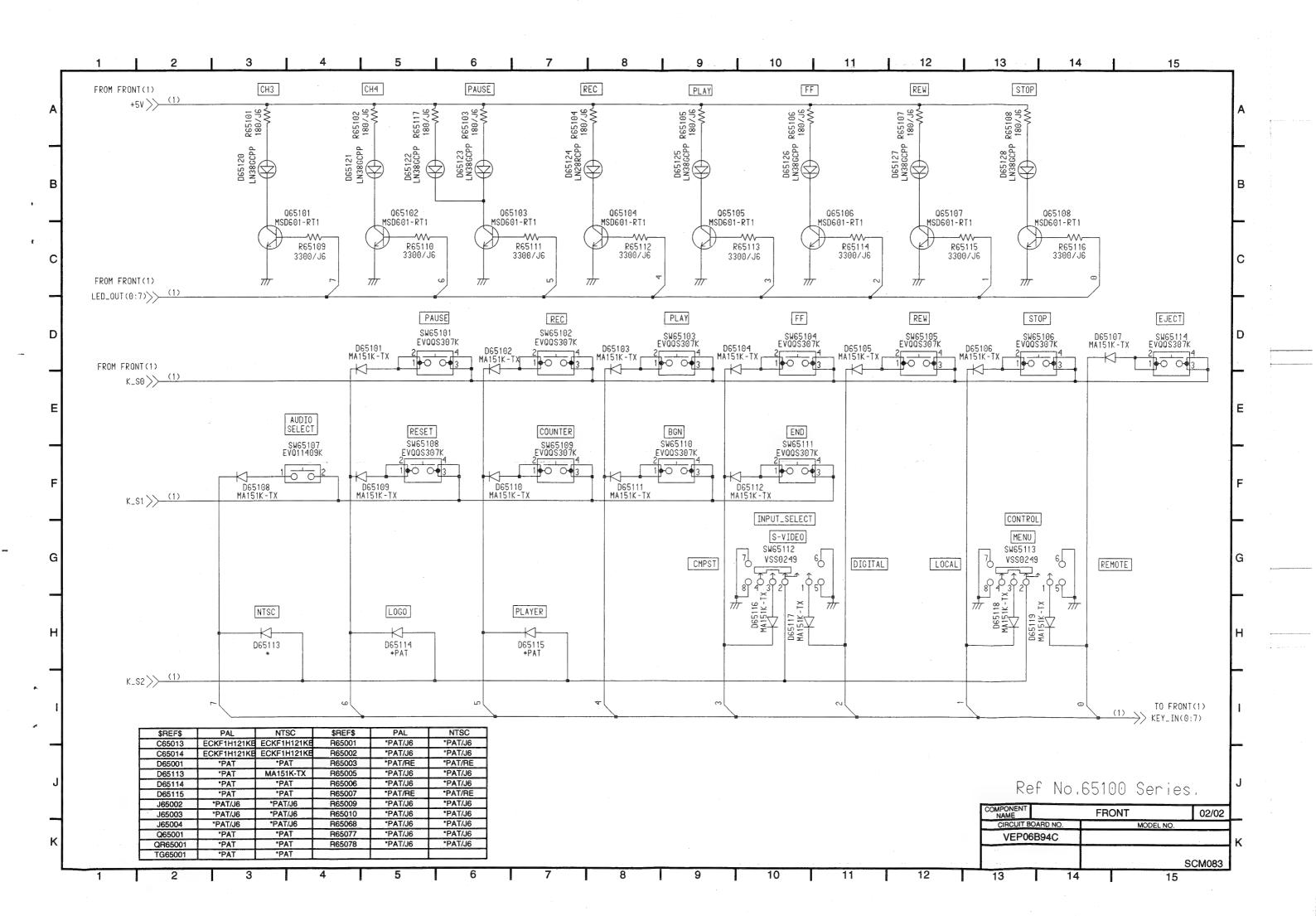


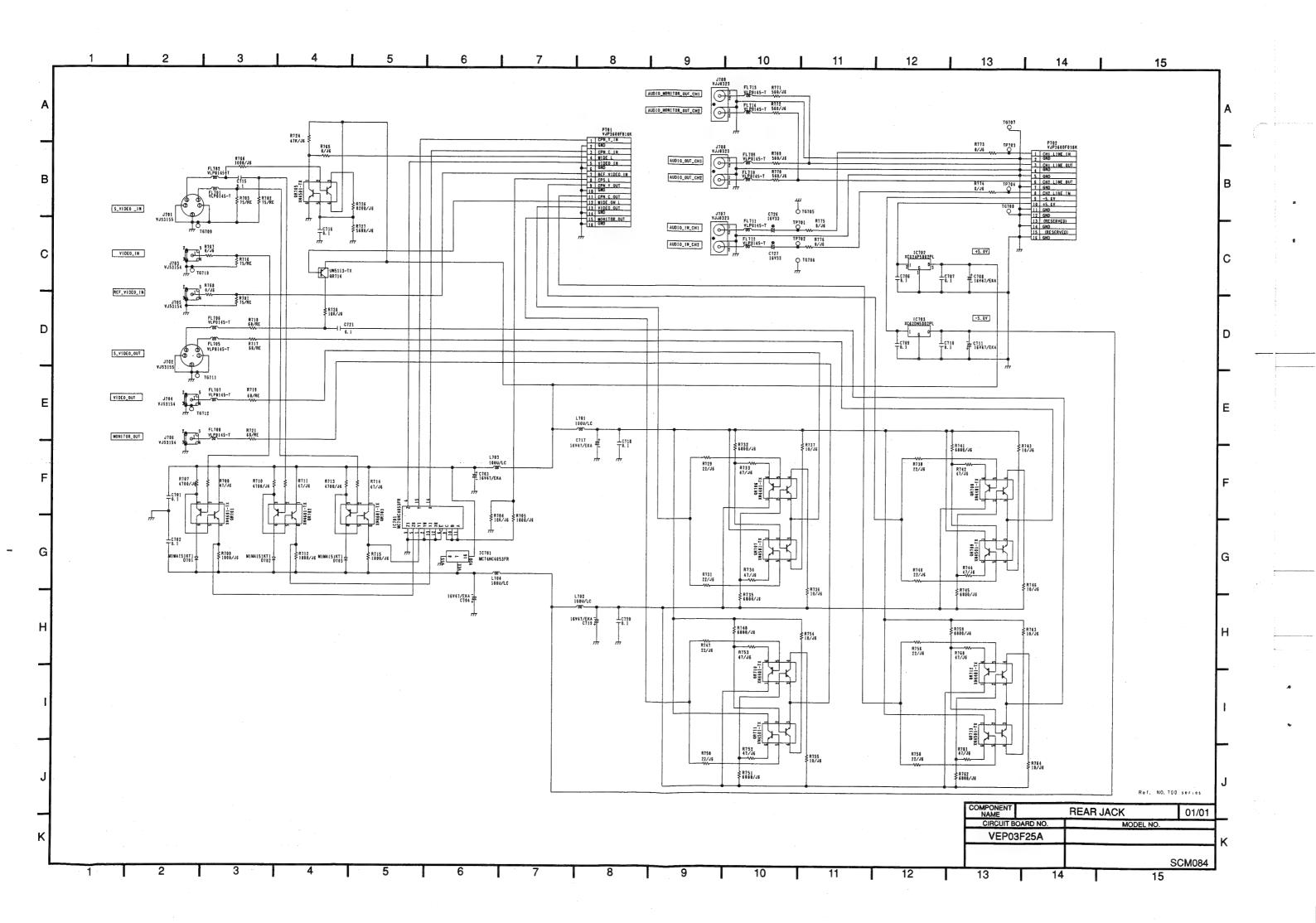


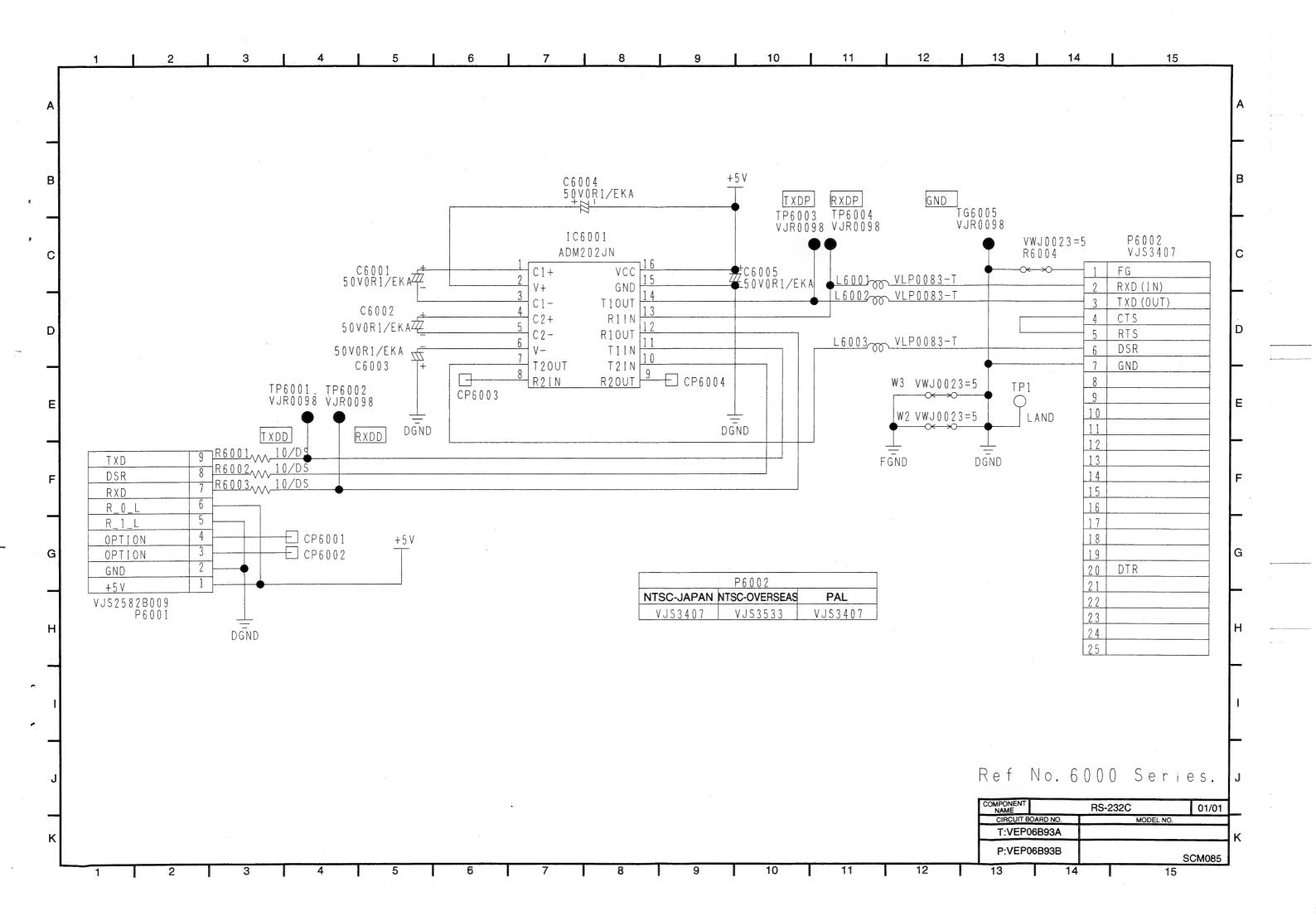


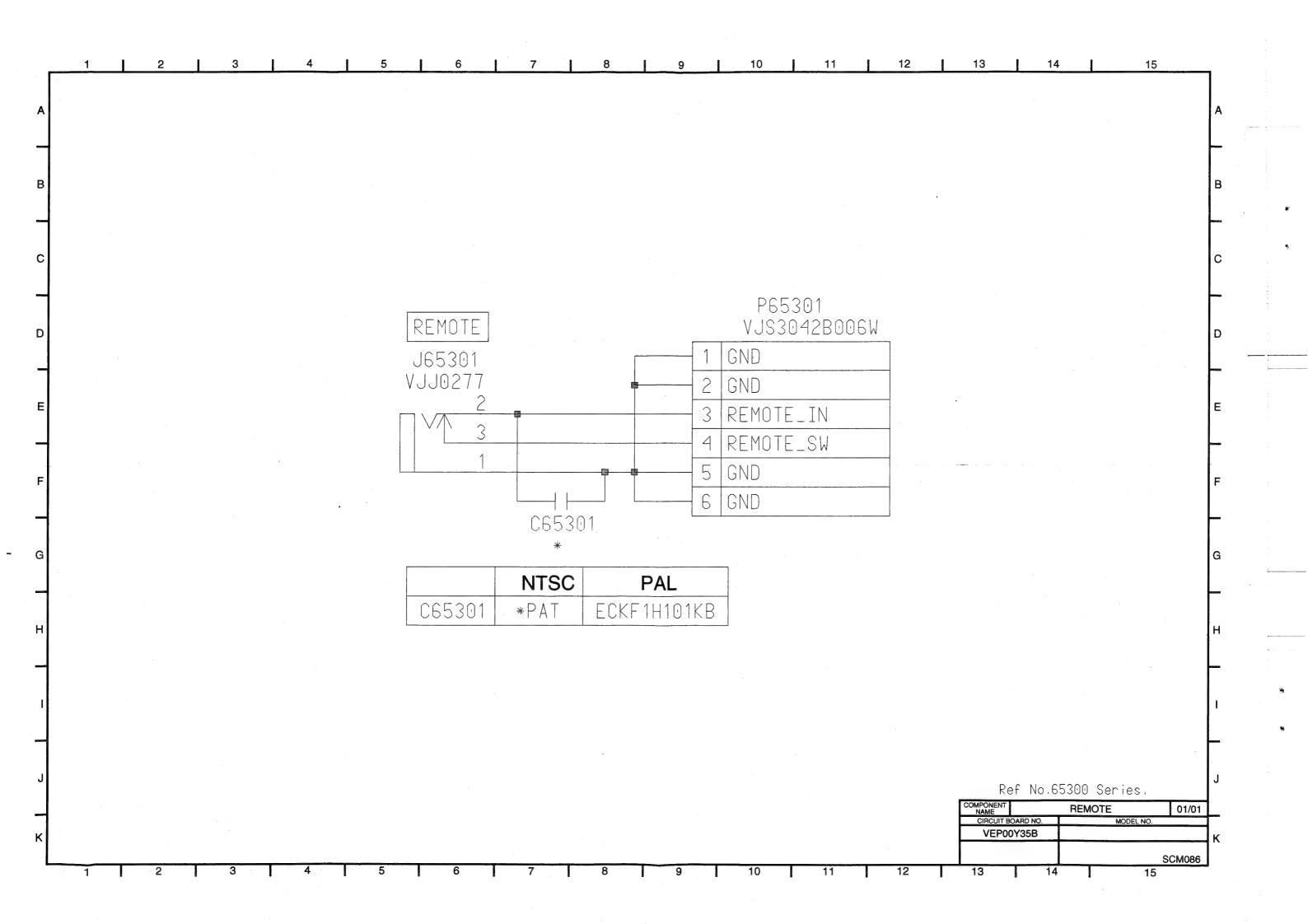












SECTION 7

CIRCUIT BOARD DIAGRAMS

CONTENS

1	CBA-1
	CBA-1
了不知了她,只有点都没有一种是一种是一种,就是一个人的一种相似的一种,就是一个人的一个人,也不是一个人的一个人,也不是一个人的一个人,一个人的一个人,一点一个人	CBA-2
FRONT PC BOARD (FOIL SIDE)	CBA-3
REPEBOARD (COMPONENT SIDE)	CBA-4
RF P.C. BOARD (FOIL SIDE)	CBA-5
AUDIO PC BOARD	CBA-6
AVOVOROBOARD	CBA-7
VIDEO I/O P.C. BOARD	CBA-8
	CBA-9
DIGITAL CORE P.C.BOARD	BA-10
SERVO P.C. BOARD	BA-11
CONTROL OF THE RELEGIOUS CARD CARD CARD CARD CARD CARD CARD CARD	BA-12
MOTHER P.C. BOARD (FOIL SIDE)	BA-13
REAR JACK P.C. BOARD	BA-14
POWER 1 P.C. BOARD	BA-15
POWER 2 P.C. BOARD	BA-15

IMPORTANT SAFETY NOTICE

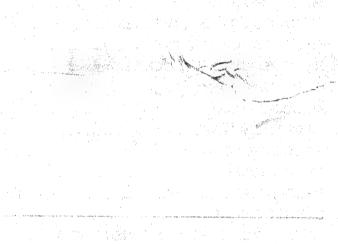
COMPONENTS IDENTIFIED WITH THE MARK A HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE SAME TYPE.

DO NOT USE THE PART NUMBER SHOWN ON THIS DRAWING FOR ORDERING. THE CORRECT PART NUMBER IS SHOWN IN THE PARTS LIST, AND MAY BE SLIGHTLY DIFFERENT OR AMENDED SINCE THIS DRAWING WASPREPARED.

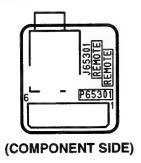
A CAUTION

THE MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.

PAY ATTENTION NOT RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS:

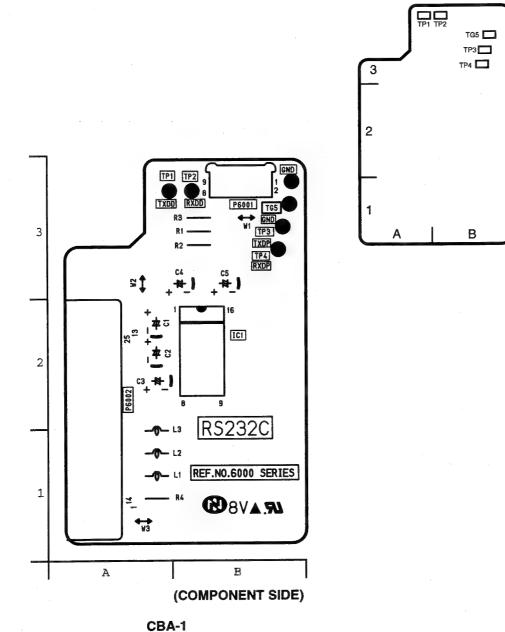


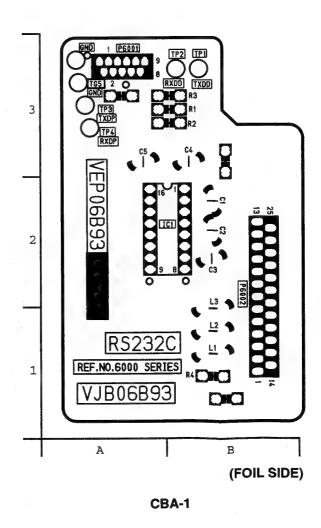
REMOTE P.C.BOARD (VEP00Y35B)





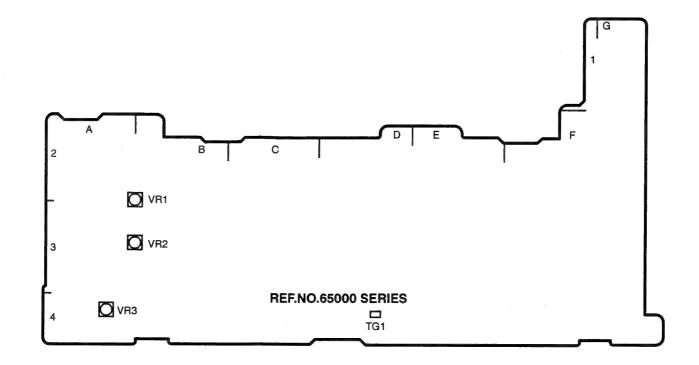
RS-232C P.C.BOARD (FOR JAPAN: VEP06B93A, FOR OVERSEAS: VEP06B93B)

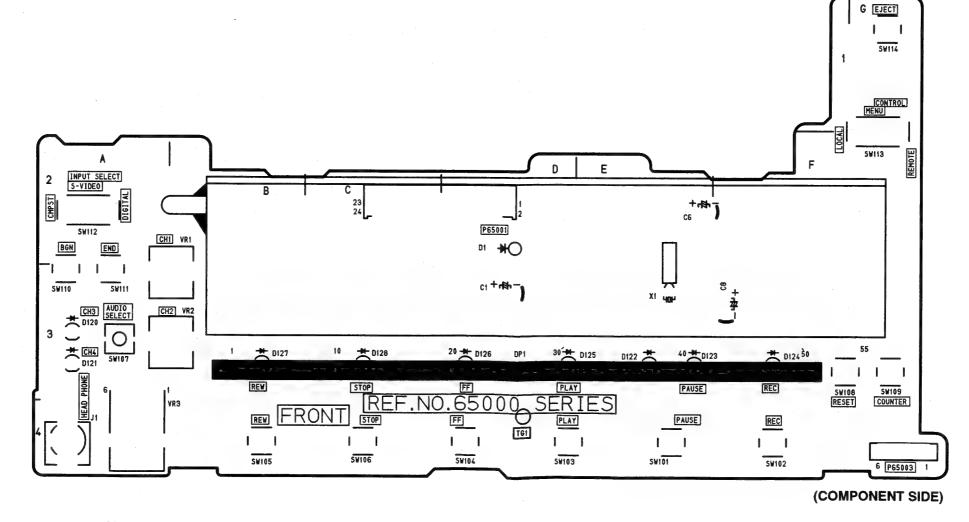




FRONT P.C.BOARD (VEP06B94C)

	COMPONE	PONENT SIDE		
	REF	LOC		
	P65001	C2		
	P65003	G4		
	VR65001	B2		
	VR65002	B3		
1	VR65003	A4		

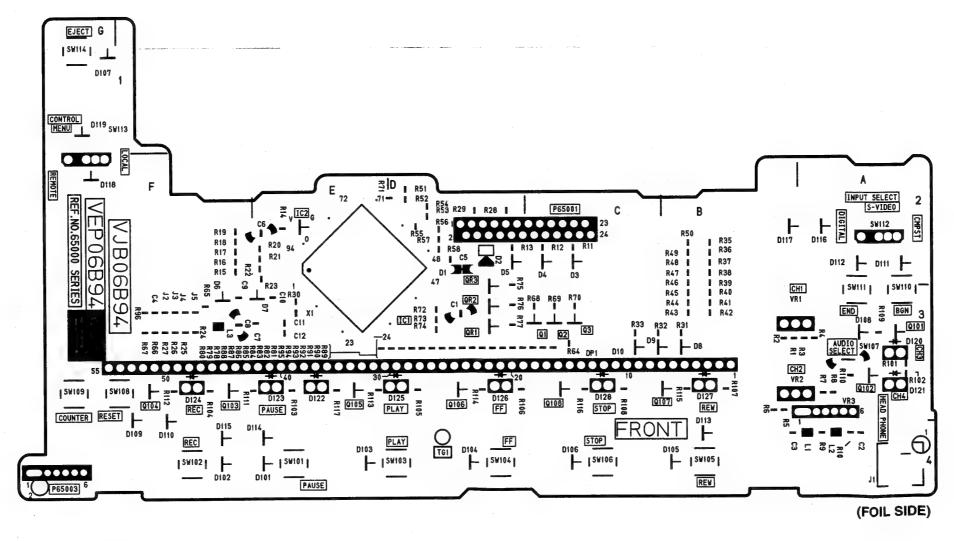




CBA-2

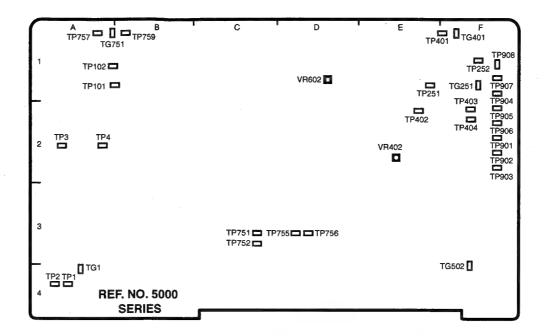
CBA-2

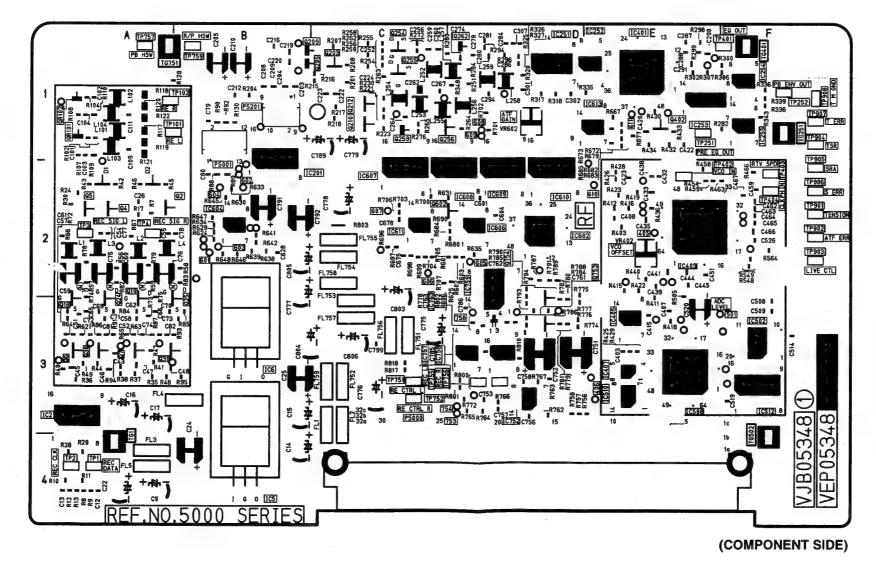
FOIL SIDE			
REF	LOC	REF	LOC
IC65001	E2	Q65104	F3
IC65002	E2	Q65105	E3
Q65002	C3	Q65106	D3
Q65003	C3	Q65107	B3
Q65101	A3	Q65108	C3
Q65102	A3	QR65002	D3
Q65103	F3	QR65003	D3



RF P.C.BOARD (VEP05348C)

REF	LOC	REF	LOC
IC5002	A3	Q5205	B1
IC5005	B4	Q5209	B1
IC5006	В3	Q5210	C1
IC5201	B2	Q5212	C1
IC5251	D1	Q5254	C1
IC5252	E1	Q5255	C1
IC5253	E1	Q5256	C1
IC5254	F1	Q5259	C1
IC5401	E1	Q5262	D1
IC5403	E2	Q5402	E1
IC5405	E3	Q5602	C2
IC5407	E3	Q5754	D2
IC5502	F3	Q5763	E2
IC5508	E3	QR5101	A1
IC5510	E3	QR5102	A1
IC5512	F3	TG5001	A4
IC5602	D2	TG5251	F1
IC5604	B2	TG5401	F1
IC5606	D2	TG5502	F4
IC5607	C2	TG5751	A1
IC5608	D2	TP5001	A4
IC5609	D2	TP5002	A4
IC5610	D2	TP5003	A2
IC5611	C2	TP5004	A2
IC5613	E1	TP5101	A1
IC5752	D3	TP5102	A1
IC5757	C3	TP5251	E1
IC5759	D2	TP5252	F1
IC5763	C3	TP5401	F1
IC5768	C3	TP5402	E2
P5000	СЗ	TP5404	F2
P5001	B1	TP5751	C3
P5201	B1	TP5755	C3
Q5002	A2	TP5757	A1
Q5004	A2	TP5759	B1
Q5005	A2	TP5766	C3
Q5006	A3	TP5901	F2
Q5007	A3		F2
Q5018	A3	TP5903	F2
Q5019	A2	TP5904	F1
Q5024	A2	TP5905	F2
Q5030	A3	TP5906	F2
Q5031 Q5203	A3 C1	TP5907 TP5908	F1

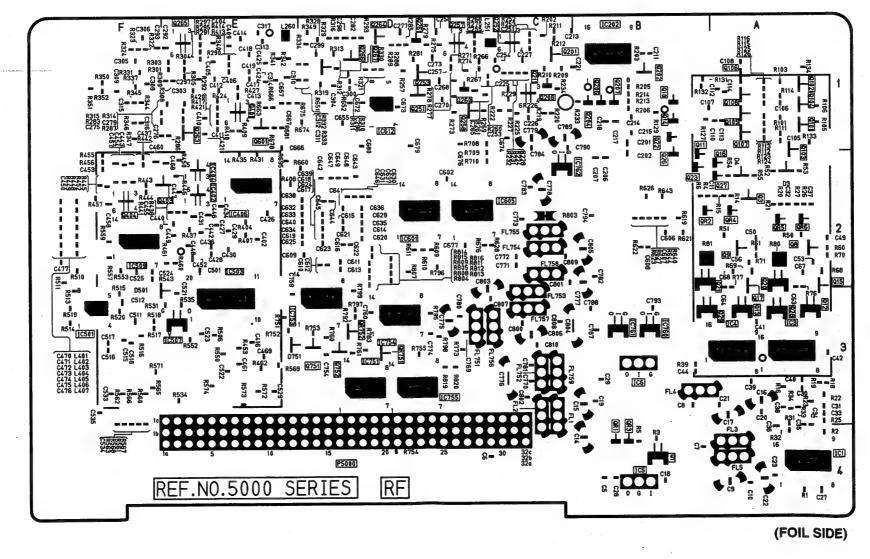




CBA-4

CBA-4

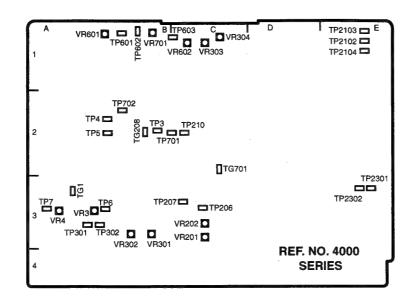
REF I	LOC	REF	LOC
IC5001	A4	Q5026	B2
IC5003	A3	Q5027	A2
IC5004	A3	Q5028	A3
IC5005	B4	Q5029	A3
IC5006	В3	Q5101	A1
IC5202	B1	Q5102	A1
IC5402	E2	Q5103	A1
IC5404	E2	Q5104	A1
IC5406	E2	Q5105	A1
IC5501	F3	Q5106	A1
IC5503	E2	Q5107	A1
IC5507	E3	Q5108	A1
IC5509	F2	Q5201	C1
IC5601	D2	Q5202	B1
IC5605	C2	Q5204	B1
IC5612	D1	Q5206	B1
IC5751	D3	Q5207	B1
IC5753	E3	Q5208	C1
IC5754	D3	Q5211	C1
IC5755	C3	Q5251	D1
IC5760	В3	Q5252	C1
IC5761	В3	Q5253	D1
TC5762	B2	Q5257	C1
P5000	D4	Q5260	C1
Q5001	B4	Q5261	D1
Q5003	A2	Q5263	E1_
Q5004	A2	Q5264	D1
Q5005	A2	Q5265	E1
Q5006	A2	Q5266	D1
Q5010	B1	Q5267	D1
Q5011	B1	Q5401	E1
Q5012	A3	Q5403	E2
Q5013	A3	Q5404	F2
Q5014	B1	Q5601	E1
Q5015	A2	Q5725	D3
Q5016	A2	Q5751	D3
Q5017	A3	QR5001	B4
Q5020	A2	QR5002	B2
Q5021	A2	QR5003	B4
Q5022 Q5023	B1	QR5751 QR5752	D3

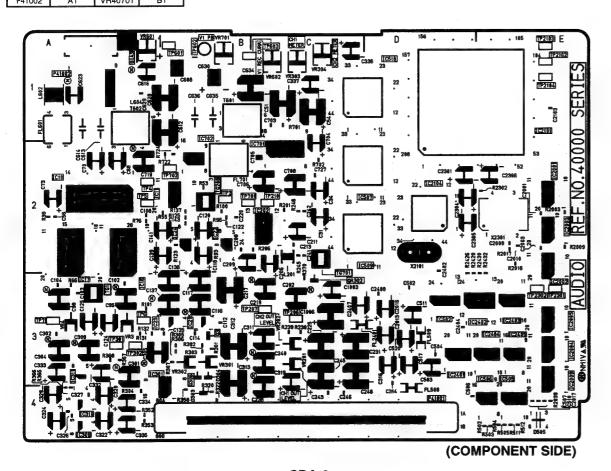


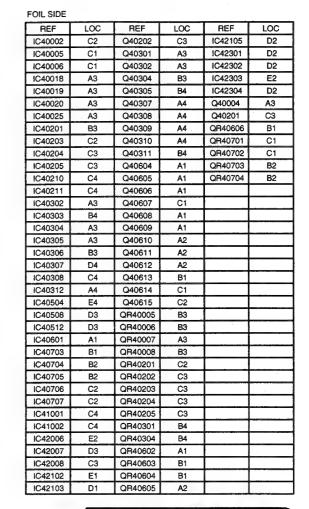
CBA-5

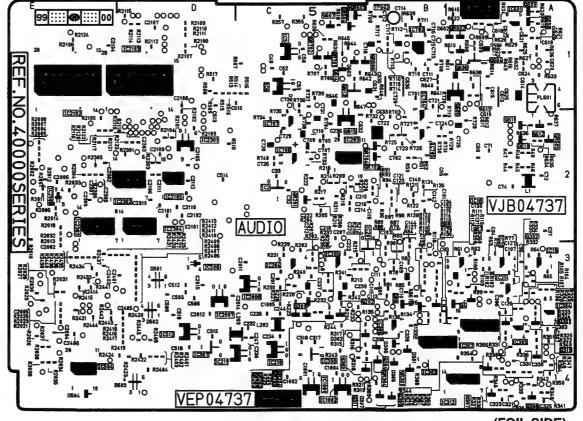
AUDIO P.C.BOARD (VEP04737A)

COMPONENT SIDE			
REF	LOC	REF	LOC
IC40010	A2	Q40003	B3
IC40011	B2	Q40306	B3
IC40016	A2	QR40302	C3
IC40017	A2	TG40001	A3
IC40021	В3	TG40208	B2
IC40022	B2	TG40701	C2
IC40023	В3	TP40003	B2
IC40024	B2	TP40004	A2
IC40202	C2	TP40005	A2
IC40301	B4	TP40006	A3
IC40309	. A4	TP40007	A3
IC40310	A4	TP40206	C3
IC40311	A3	TP40207	C3
IC40502	D3	TP40210	C2
IC40505	E4	TP40301	A3
IC40506	E4	TP40302	A3
IC40507	D2	TP40601	B1
IC40509	D2	TP40603	C1
IC40510	D1	TP40701	C2
IC40701	C2	TP40702	B2
IC40702	B2	TP42102	E1
IC42001	E2	TP42103	E1
IC42002	E2*	TP42104	E1
IC42003	E2	TP42301	E3
IC42004	E3	TP42302	E3
IC42005	E3	VR40003	A3
IC42009	E3	VR40004	A3
IC42101	E1	VR40201	C3
IC42104	D2	VR40202	C3
IC42401	D3	VR40301	B3
1C42402	E3	VR40302	B3
IC42403	E3	VR40303	C1
IC42404	E3	VR40304	C1
IC42405	E3	VR40601	A1
P41001	C4	VR40602	C1
P41002	A1	VR40701	B1









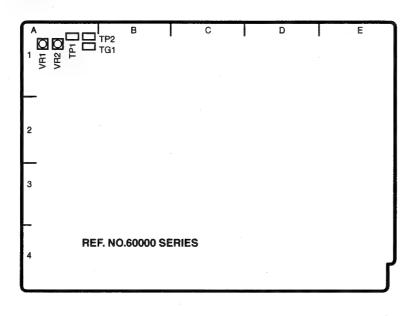
(FOIL SIDE)

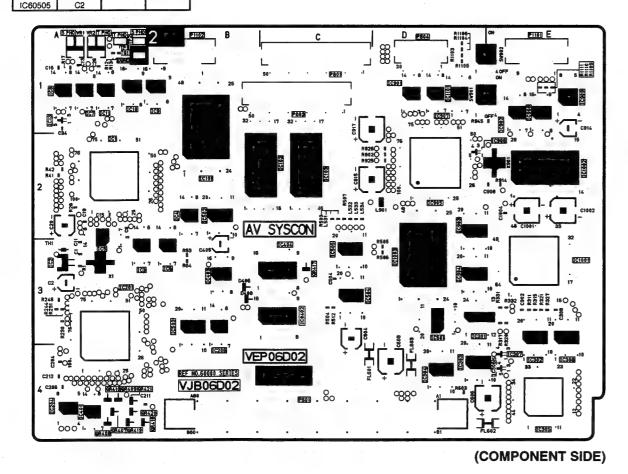
CBA-6

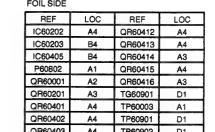
CBA-6

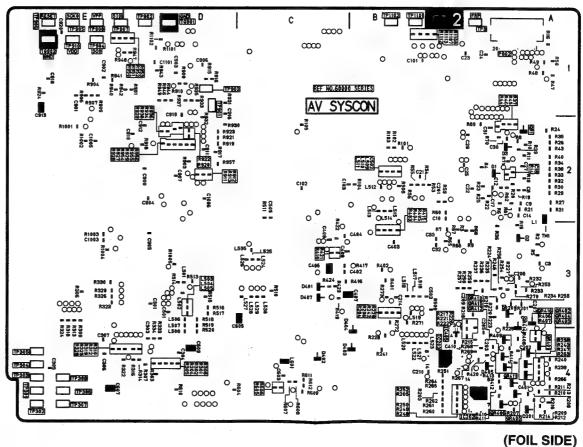
AV SYS P.C.BOARD (VEP06D02A)

COMPONE	NT SIDE		
REF	LOC	REF	LOC
IC60001	A2	IC60901	D1
IC60002	A3	IC60902	E1
IC60003	- A2	IC60903	D2
IC60004	B2	IC60904	D3
IC60005	A2	IC60905	D2
IC60006	B2	IC60906	D2
IC60007	A1	IC60907	D1
IC60008	A1	IC60908	E1
IC60009	81	IC60909	E1
IC60010	- A1	IC61001	E3
IC60011	A1	IC61002	E2
IC60013	A1	IC61003	D3
IC60101	B1	IC61101	D1
IC60102	C2	P60601	C4
IC60103	C2	P60801	C1
IC60201	A3	P60804	D1
IC60204	A4	P61101	E1
IC60206	B3	P61102	B1
IC60301	D3 ·	QR60407	A4
IC60302	E3	QR60408	A4
IC60303	D4	QR60409	A4
IC60304	D4 .	QR60410	A4
IC60306	E4	QR60417	C3
IC60308	E3	QR60418	A4
IC60401	A4	QR60419	A4
IC60402	C3	QR60420	A4
IC60403	B3	QR60421	A4
IC60404	C3	TG60001	A1
IC60501	D3	TP60001	A1
IC60502	B2	TP60002	A1
IC60503	B3 -	VR60001	A1
IC60504	C3	VR60002	A1
1000505	-00		



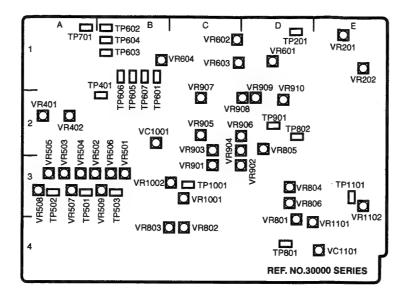


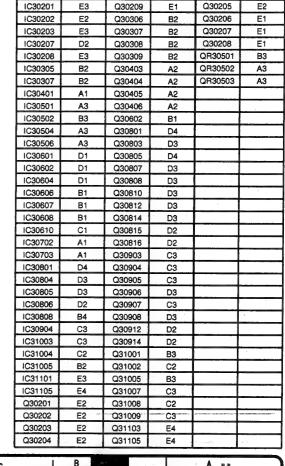




VIDEO I /O P.C.BOARD (VEP03F01A)

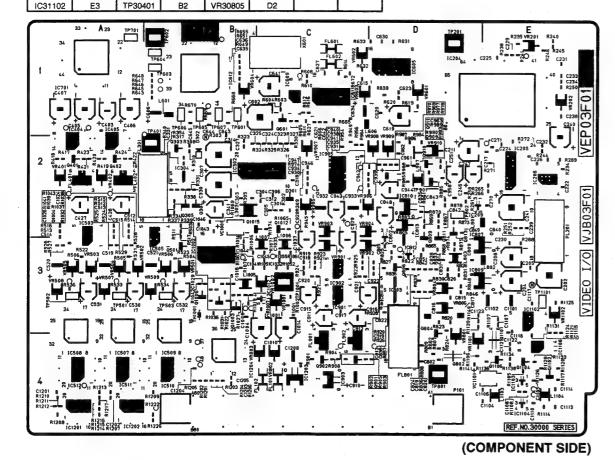
OMPONEN	IT SIDE			•		•	
REF	LOC	REF	LOC	REF	LOC	REF	LOC
IC30204	E1	IC31103	E4	TP30501	A3	VR30806	D3
IC30205	E2	IC31104	E4	TP30502	A3	VR30901	C3
IC30206	E2	IC31106	E4	TP30503	В3	VR30903	C2
IC30209	D2	IC31201	A4	TP30601	B1	VR30904	C2
IC30302	C2	IC31202	A4	TP30602	B1	VR30906	C2
IC30304	B2	IC31203	C4	TP30603	B1	VR30907	C2
IC30404	A2	IC31204	B4	TP30604	B1	VR30908	D2
IC30405	A2	P30101	C4	TP30605	B1 .	VR30910	D2
IC30503	A2	Q30303	B2	TP30606	B1	VR31001	СЗ
IC30505	B2	Q30304	B2	TP30607	B1	VR31002	СЗ
IC30507	A3	Q30305	B2	TP30701	A1	VR31101	D4
IC30508	A3	Q30401	A2	TP30801	D4	VR31102	E3
IC30509	В3	Q30402	A2	TP30802	D2	VR30806	D3
IC30510	B4	Q30501	В3	TP30901	D2	VR30901	СЗ
IC30511	- A4	Q30601	C1	TP31001	C3	VR30903	C2
IC30512	A4	Q30802	D4	TP31101	E3	VR30904	C2
IC30605	D1	Q30804	D3	VR30401	A2	VR30906	C2
IC30609	C1	Q30806	D3	VR30402	A2	VR30907	C2
IC30611	C1	Q30809	D2	VR30501	B3	VR30908	D2
IC30612	B1	Q30811	D2	VR30502	A3	VR30910	D2
IC30701	A1	Q30813	D2	VR30503	A3	VR31001	C3
IC30802	D2	Q30901	C4	VR30504	A3	VR31002	C3
IC30803	D3	Q30902	C4	VR30505	A3	VR31101	D4
IC30807	D3	Q30909	D2 -	VR30506	B3	VR31102	E3
IC30809	D3	Q30911	D2	VR30507	A3		
IC30810	D2	Q31003	B3	VR30508	A3		
IC30811	D3	Q31004	B3	VR30509	В3		
IC30812	D3	Q31006	B3	VR30601	D1		
IC30813	D2	Q31012	C2	VR30602	C1		
IC30901	C3	Q31015	B2	VR30603	C1		
IC30902	СЗ	Q31101	E4	VR30604	B1		
IC30903	C4	Q31102	E4	VR30801	D3		
IC30905	C2	Q31104	E4	VR30802	C4		
IC31001	СЗ	Q31106	E4	VR30803	C4		
IC31002	В3	TP30201	D1	VR30804	D3		
1001100							

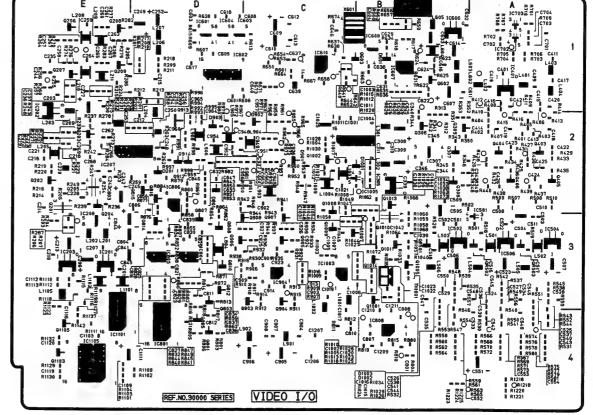




FOIL SIDE

REF

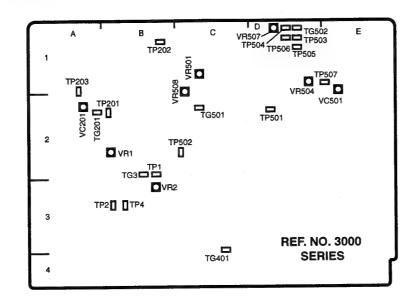


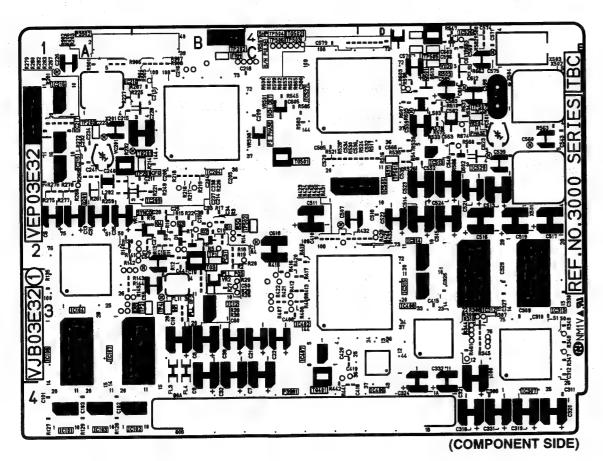


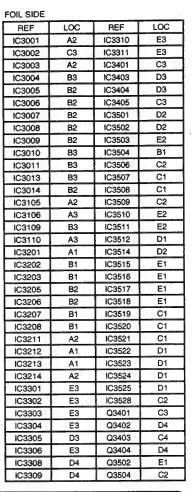
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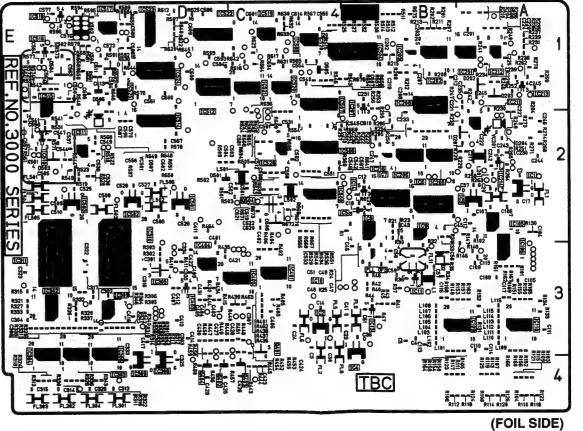
TBC P.C.BOARD (VEP03E32B)

COMPONE	NT SIDE		
REF	LOC	REF	LOC
IC3012	B3	Q3002	B2
IC3101	A4	Q3003	B2
IC3102	A4	Q3004	B2
IC3103	A4	Q3201	A2
IC3104	А3	Q3501	D1
IC3107	B3	Q3503	D1
IC3108	A3	TG3003	B2
IC3204	B1	TG3201	A2
IC3209	B2	TG3401	C3
IC3210	B1	TG3501	C2
IC3215	A2	TG3502	D1
IC3216	A1	TP3001	B2
IC3217	A2	TP3002	B3
IC3307	E3	TP3004	B3
IC3312	E3	TP3201	B2
IC3313	E3	TP3202	B1
IC3314	D2	TP3203	A1
IC3315	D3	TP3501	D2
IC3402	C3	TP3502	C2
IC3406	D3	TP3503	D1
IC3407	C3	TP3504	D1
IC3505	C2	TP3505	D1
IC3513	D2	TP3506	D1
IC3526	D1	TP3507	E1
IC3527	C1	VR3001	B2
IC3529	E2	VR3501	C1
P3902	B1	VR3504	D1
P3981	C4	VR3507	D1
03001	B2	VR3508	C2









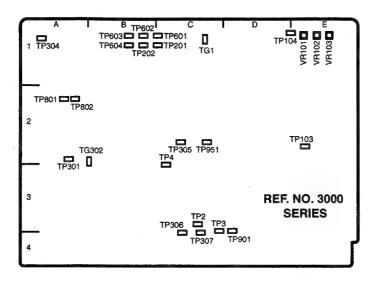
CBA-9

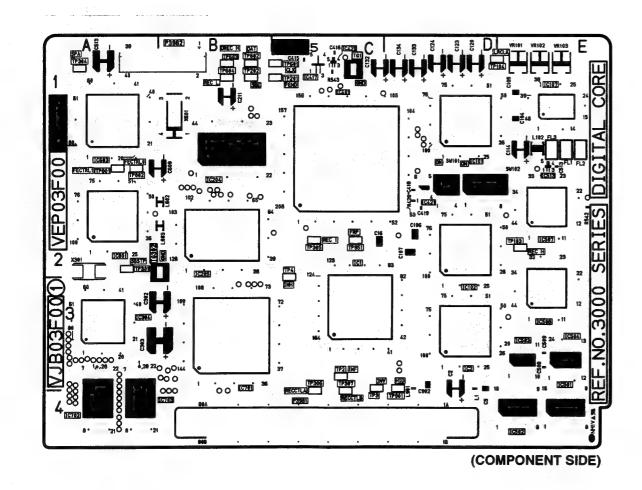
DIGITAL CORE P.C.BOARD (VEP03F00A)

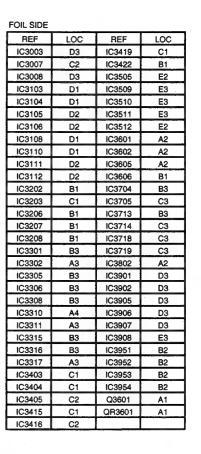
COMPONENT SIDE			
REF	LOC	REF	LOC
IC3001	C3	TG3302	B2
IC3002	D3	TP3002	C3
IC3101	D1	TP3003	C3
IC3102	D2	TP3004	C3
IC3107	. E1	TP3103	E2
IC3204	B2	TP3104	E1
IC3205	B2	TP3201	C1
IC3304	A3	TP3202	81
IC3401	C2	TP3301	A2
IC3417	C1	TP3304	A1
IC3420	C1	TP3305	C2
IC3421	D2 -	TP3306	C4
IC3501	E4	TP3307	Ç4
IC3502	E4	TP3601	C1
IC3503	E3	TP3602	B1
IC3504	E3	TP3603	B1
1C3507	E2	TP3604	B1
IC3508	E3	TP3801	A2
IC3513	E2	TP3802	A2
IC3603	A1	TP3901	D3

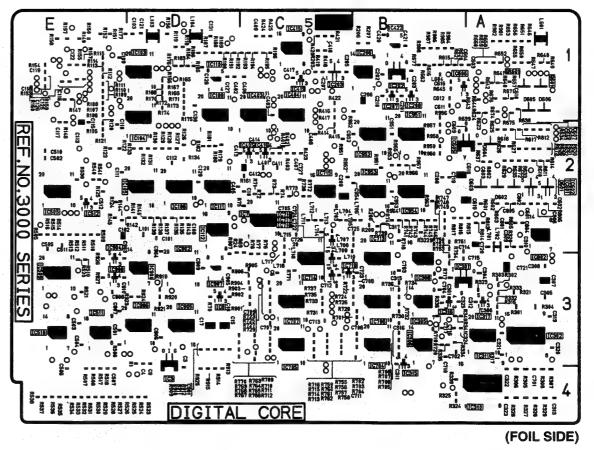
C4 VR3101

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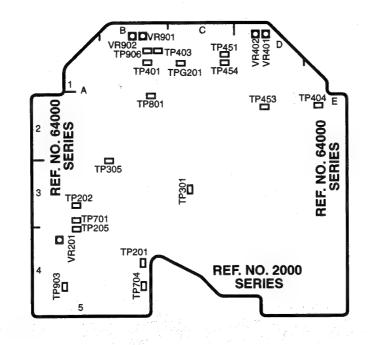


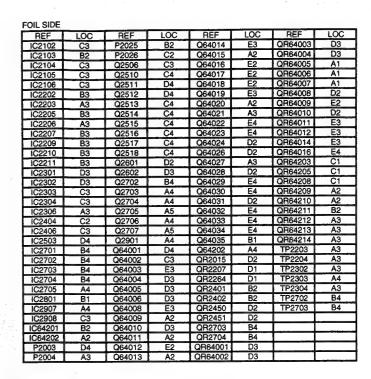


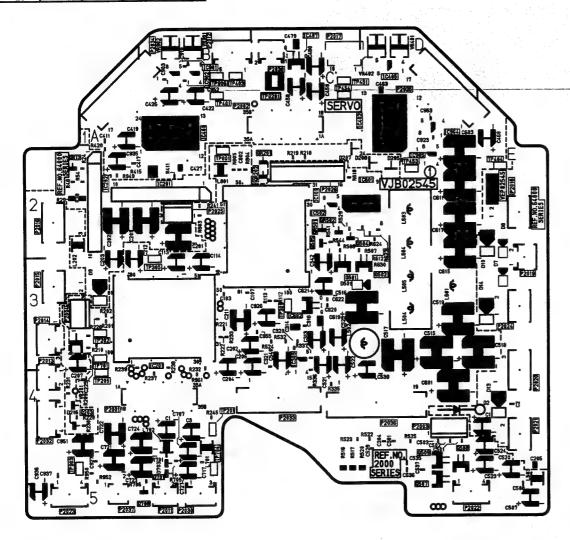
CBA-10

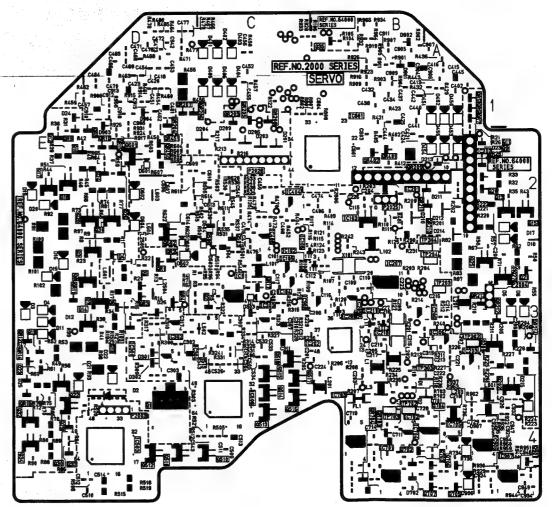
SERVO P.C.BOARD (VEP02545J)

REF	LOC	REF	LOC	REF	LOC
C2101	C2	P2025	B2	TP2453	D2
C2201	B3	P2026	C2	TP2454	C1_
C2305	C3	P2030	B5	TP2701	A3
C2401	B1	P2032	A4	TP2702	A3
C2405	D1	P2033	C4	TP2704	B4
C2407	C1	P2034	B1	TP2801	B2
C2502	C2	P2035	D1	TP2903	A4
C2601	D2	P2036	D4	TP2906	B1
C2602	C3	P2037	A5	TPG2201	C1
C2901	B1	P2038	C1	VR2901	B1
C2902	B1	Q2501	СЗ	VR2902	B1
IC2904	D1	Q2502	D3		
IC2905	D2	Q2504	C2		
C64201	B2	Q2505	C2		
C64202	A2	Q2507	D4		
P2001	A4	Q2508	D4		
P2002	B1	Q2509	D4		
P2003	D4	Q2701	B4		
P2004	A3	Q2708	B5_		
P2011	B5	Q64203	A4		
P2012	B1	QR2501	C2		
P2013	A3	QR2502	C2	T	
P2014	A3	QR64013	A2		
P2015	A3	QR64201	C2		
P2016	A2	QR64202	C2		
P2017	C1	TP2201	B4		
P2018	E2	TP2205	A4		
P2019	E3	TP2301	C3_		
P2020	E4	TP2305	В3		
P2021	E4	TP2401	B1		
P2022	D5	TP2403	B1		
P2023	A5	TP2404	E2		
P2024	E3	TP2451	C1		









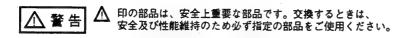
(COMPONENT SIDE)

(FOIL SIDE)

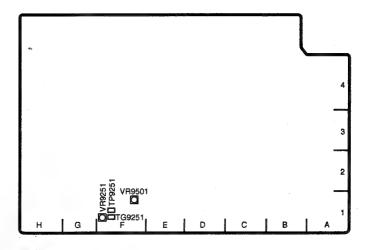
MOTHER P.C.BOARD (VEP000E6A)

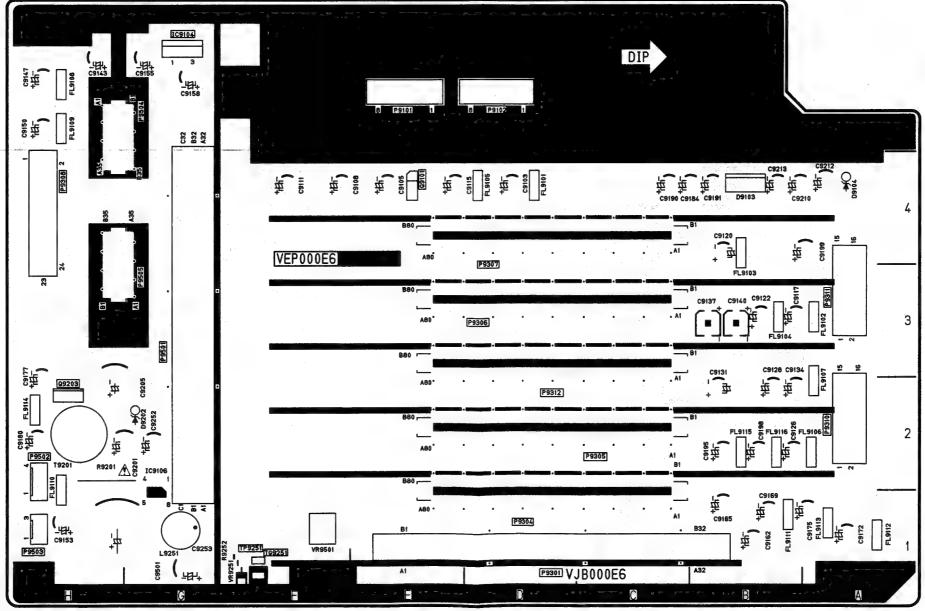
COMPONENT SIDE

REF	LOC	REF	LOC
IC9104	G5	P9312	D3
IC9106	G2	P9501	G3
P9101	E5	P9502	H2
P9102	D5	P9503	-H1
P9301	D1	P9504	H5
P9304	D2	P9505	H4
P9305	D2	Q9101	E4
P9306	D3	Q9203	H2
P9307	D4	TG9251	F1
P9308	H4	TP9251	F1
P9310	A2	VR9251	F1
P9311	A3	VR9501	F1



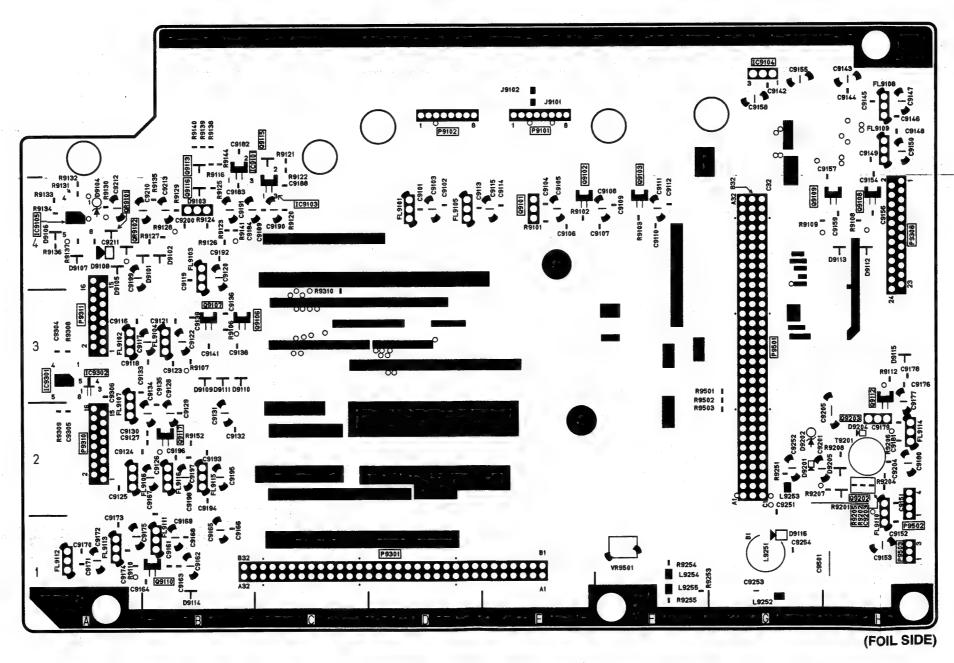
IMPORTANT SAFETY NOTICE:
COMPONENTS IDENTIFIED WITH THE MARK A HAVE THE SPECIAL CHARACTERISTICS FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS, USE ONLY THE SAME TYPE.





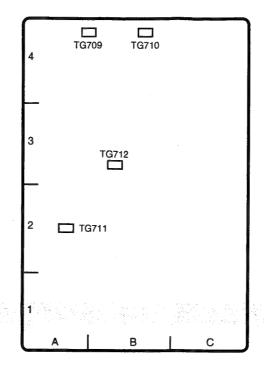
(COMPONENT SIDE)

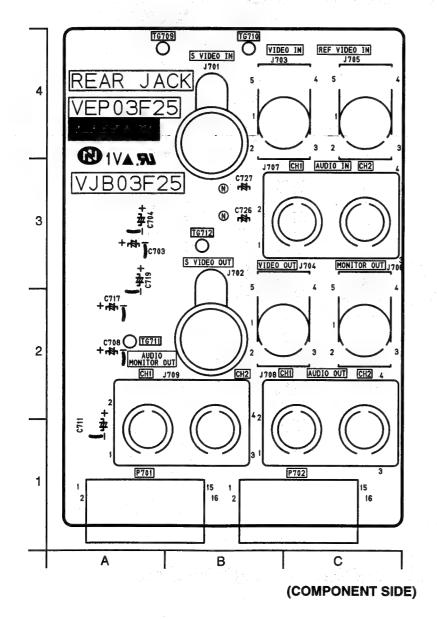
FOIL SIDE			
REF	LOC	REF	LOC
IC9101	B5	Q9109	H4
IC9103	C4	Q9110	B1
IC9105	A4	Q9112	H3
IC9301	A3	Q9113	B5
IC9302	A3	Q9115	C5
Q9102	E4	Q9116	B4
Q9103	F4	Q9117	B2
Q9106	B3	Q9202	H2
Q9107	B3	QR9101	A4
Q9108	H4	QR9102	A4

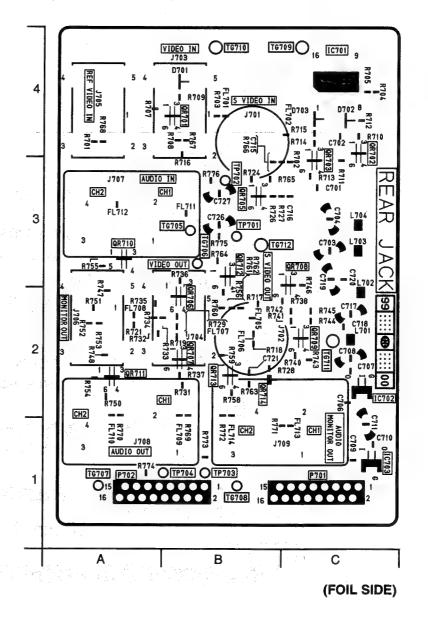


CBA-13

REAR JACK P.C.BOARD (VEP03F25A)







CBA-14

POWER 1 P.C.BOARD (VEP01791A)

POWER 2 P.C.BOARD (VEP01792A)

内は充電部です。AC100Vが加わっておりますので点検、修理のときは感電 しないよう十分ご注意ください。

CAUTION

THE MARK INDICATES THE PRIMARY CIRCUIT TO DISTINGUISH THE PRIMARY FROM THE SECONDARY CIRCUIT.

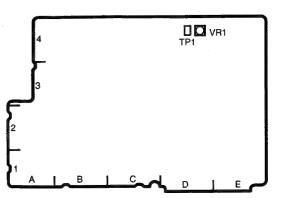
PAY ATTENTION NOT RECEIVE AN ELECTRIC SHOCK DURING REPAIR AND SERVICE OF THE PRODUCTS.

↑ の部品は、安全上重要な部品です。交換するとき は、安全及び性能維持のため、必ず指定の部品を ご使用ください。

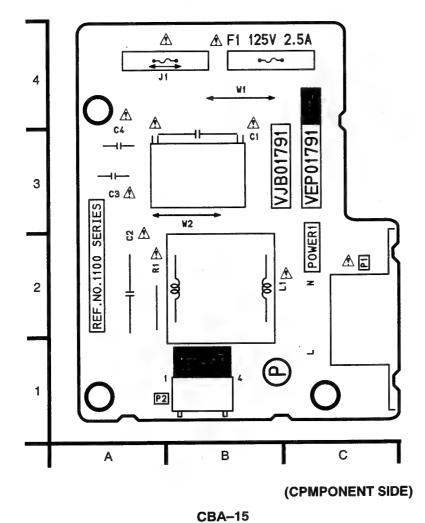
IMPORTANT SAFETY NOTICE

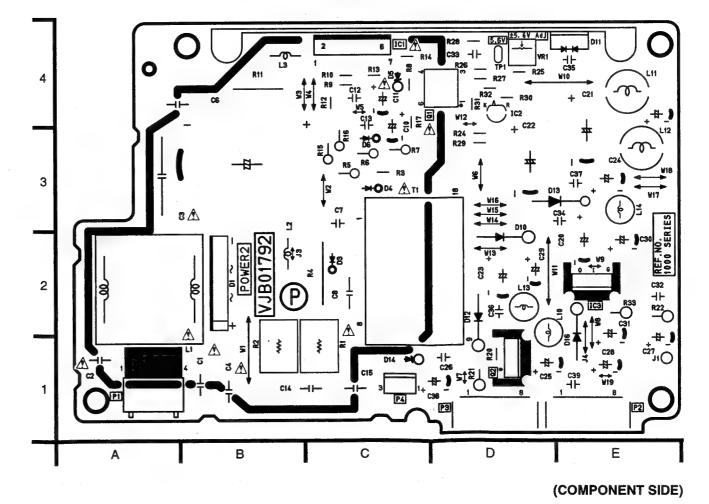
COMPONENTS IDENTIFIED WITH THE MARK AND HAVE THE SPECIAL CHARACTERISTICS

WHEN REPLACING ANY OF THESE COMPONENTS USE ONLY THE SAME TYPE.



COMPONENT SIDE			
REF	LOC		
IC1	C4		
IC2	D4		
IC3	E2		
P1	A1		
P2	E1		
P3	D1		
P4	C1		
Q1	D4		
Q2	D1		
TP1	D4		
VR1	D4		





CBA-15

SECTION 8

EXPLODED VIEWS PARTS LIST

Note:

- 1. *Be sure to make your orders of replacement parts according to this list.
- 2. Unless otherwise specified, all resistors are in OHMS, K=1,000 OHMS, all capacitors are in MICROFARADS (μ F), P= $\mu\mu$ F.
- 3. The P.C. Board units marked with "" shown below the main assembled parts.
- 4. The parts marked with E on the exploded view show the electric parts.
- 5. IMPORTANT SAFETY NOTICE
 - Components identified with the mark <!> have the special characteristics for safety. When replacing any of these components, use only the same type.
- 6. The marking (RTL) indicates the retention time is limited for this item.
 - After the discontinuation of this assembly in production, it will no longer be available

<< Abbreviations for part>>

W/COMPONENT

<name></name>	<descriptions></descriptions>
C. CAPACITOR	CERAMIC CAPACITOR CH : CERAMIC CHIP CAPACITOR
C. CAPACITOR F. CAPACITOR	ELECTROLYTIC CAPACITOR
G. CAPACITOR	GLASS CAPACITOR
M. CAPACITOR	MICA CAPACITOR
P. CAPACITOR	PLASTIC FILM CAPACITOR
S. CAPACITOR	SEMI-CONDUCTOR CAPACITOR
T. CAPACITOR	TANTALUM CAPACITOR
TRIMMER :	TRIMMER
C. RESISTOR	: CARBON RESISTOR
F. RESISTOR	: FUSE RESISTOR
M. RESISTOR	: METAL OXSIDE RESISTOR
M. RESISTOR	CH : METAL OXSIDE CHIP RESISTOR
S. RESISTOR	: SOLID RESISTOR
V. RESISTOR	: VARIABLE RESISTOR
W. RESISTOR	: WIRE WOUND RESISTOR
COMBL TR-R	TRANSISTOR-RESISTOR COMBINATION PARTS
COMBI. R-R	RESISTOR-RESISTOR COMBINATION PARTS
COMBI. C-R	: CAPACITOR-RESISTOR COMBINATION PARTS
COMBL C-R-R	CAPACITOR-RESISTOR-COIL COMBINATION PARTS
P.C. BOARD	: PRINTED CIRCUIT BOARD

WITH COMPONENT

CONTENTS

Mechanical Replacement Parts List & Exploded Views PRT-1
Casing Parts Assembly PRT-1
Mechanical Chassis Assembly (1) PRT-3
Mechanical Chassis Assembly (2) · · · · PRT-5
Sub Chassis Assembly · · · · PRT-7
Chassis Frame Assembly ····· PRT-9
Cassette Compartment Assembly · · · · PRT-1
Packing Parts Assembly · · · · PRT-13
Electrical Replacement Parts List · · · · PRT-14

SERVICING FIXTURES & TOOLS

AJ-D250P

Ref. No	. Part No.	Part Name & DescriptionPcs	Remarks	Ref. No.	Part No.	Part Name & Description	Pcs Remarks
1	VFK1145	BACK TENSION METER (T2-M30 1					
2	VFK1149	POST DRIVER 1					His man de la companie de la compani
3	VFK71	DIAL TORQUE GAUGE(150G) 1				The second state of the second	
4	VFK1191	DIAL TORQUE GAUGE (45G) 1					
5	VFK1152	DIAL TORQUE GAUGE ADAPTOR 1	na an and na faera aeus dia aeu tan an ann an meann ae an dha sta an aeu an an an an eist at da ta t-collaidhna e bha a	\$46.871.876.866.81.1 cold de det 48.74 67.766 ac de cir de	**************************************	A MARIE MENTE A CANCEL SECURITION OF COLUMN SECURITION OF COLUMN SECURITION OF SECURIT	
6	VFK0357	ECCENTRIC SCREWORIVER(1.5 1					
7	VFK1154	POST HEIGHT FIXTURE 1	CONTRACTOR	ANTONIO ATTO A TO A TO A TO A TO A TO A TO A			
8	VFK1153	MECH. NEUTRAL PLATE(POST) 1	professional continuous proceedings of the state of the s		######################################		**************************************
9	VFK1157	MECH. NEUTRAL PLATE (CASSE 1					
10	VFK1155	NEUTRAL POSITION TOOL (GOL 1	**************************************	and the constraint of the of the condition of the series	1.00000 + 10000 + 100 01 11 11 11 11 11 11 11 11 11 11 11		
11	VFK1156	NEUTRAL POSITION TOOL (BLA 1					
12	VFK1208	NEUTRAL POSITION TOOL(BLA 1	The state of the s		**** - *******************************		
13	VFK1150	NUT DRIVER(5.5MM)	and and the desire and an executable for the control of the contro	And distance	edelicana (1999)		Charlotter and the Control of Con
14	VFK1151	NUT DRIVER(2,5MM) 1					
15	VFK1188	DIAL TENSION GAUGE (30G) 1			de ammeram in comme a propagació e e parameter de in-		
16	VFK0948A	CHECK LIGHT 1					
17	VFK0749	FROIRAL GREASE (FOR PLASTI 1	, pr		THE STATE OF		
18	MOR265	MOLYTONE GREASE(FOR METAL 1	representation of the second s			The state of the s	inclined to array and any construction of the factor of th
19	VFK1146	PHILIPS DRIVER(FINE) (00-7 1					
20	VFK1147	PHILIPS DRIVER(FINE) (0-10 1					
21	VFK1148	HEX. DRIVER(1.5)					
22	VFK1178	HEX. DRIVER(0.89)	The second secon				
23	VFK1179	HEX. DRIVER(0.71)	the second transfer and the contract of the second		der	Management de la capacitation de la contraction de la capacitation de	
24	VFK1190	HEX. WRENCH 1					
25	VFK1209	TORQUE DRIVER(0.4-3KG) 1				0	
26	VFK0912	POST AXIS DRIVER(1, 5MM) 1					
27	VFK1300	A/D BOARD (DAG-12, QUATECH) 1	a, projecti, calde aglaci fordere ladjeno prode o degleto o pedro i alpendidati A			And the second s	The state of the s
28	VFM3580KM	ALIGNMENT TAPE(NO.1)	d a company of the state of the			AND CONTROL OF THE PERSON AND AND AND AND AND AND AND AND AND AN	
29	VFM3581KM	ALIGNMENT TAPE (NO. 2)					
30	VFM3582KM	ALIGNMENT TAPE(NO.3) 1			and the state of t	DE TOUR MINER PROPERTY OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR C	
32	VFK1159	LISTA SOFTWARE 1					
33	VFK1186	LISTA CABLE 1	VIVIN WILLIAM CONTROL OF THE CONTROL				
34	VFK0369	TWEEZERS 1					December 1 April 1990
35	VFK0371	RADIO PRIER 1					
36	VFK0372	CUTTER PRIER 1	The state of the s				
37	VFK0338	TRIMMER ADJUSTMENT DRIVER 1					
38	VFK0337	PHILIPS DRIVER 1	The second secon			The second secon	
39	VFM3000EDS	ALIGNMENT TAPE (DV LISTA) 1					.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
40	VFM3010EDS	ALIGNMENT TAPE(DV COLOR B 1					
45	VFK1160B	RF ADJUSTMENT SOFT 1					
46	VFK1163	RF ADJUSTMENT TOOL 1					

CASING PARTS ASSEMBLY

Ref. No.	Part No.	Part Name & DescriptionPo	s Remarks	Ref.No.	Part No.	Part Name & Description	es Remarks
		5. · ·					
	VYM0187 VHD0274	TOP PLATE ASS'Y	2				* .
	VMP5903	TOP PLATE ANGLE	1				· · · · · · · · · · · · · · · · · · ·
	VMX2510	SPACER	2				
1-4	VMX2930	SPACER	1				
	VMZ2325	TOP PANEL BARRIER	1				
	par	P. C. BOARD FIXING ANGLE	1				
	VMX2674 VXA5937	P.C.B. HOLDER GUM CHASSIS HOLDER FRAME ASS'Y	1			and the second	
	VEP00Y68A	FLEXIBLE CABLE P. C. BOARD	: 1			The second control of	
	VYP7370	FRONT PANEL (1) ASS'Y	1				
	VWP6147	TOP COVER ANGLE	1	-			
8	VMB2923	BLINDER SPRING	1				
a compression contract and the compression	VKF2785 VY01401	BLINDER PANEL CASSETTE GUIDE ASS'Y	1				
and the second second second second	VGF0706	FLEXIBLE CABLE BARRIER	1		es er e e com a communicación de la companya de la		
12	VGF0687	SLIDE SW SHEET	2			*	
13	VGU5582	SWITCH KNOB	2				
and the control of the control of the control of	VGU5067	VOLUME KNOB	1				
CONTRACTOR	VMZ2714	AC CABLE BARRIER	1				
~ · · · · · · · · · · · · · · · · · · ·	VWJ24AW270M0 VMP5369	FRONT FLAT CABLE CONNECTOR ANGLE	11			#	
	VJH1105	REAR JACK PLATE	1	▼ /#100 100 *#100 #100 #100 #100 #100 #100	and the second constant and the second constant of the second consta		
	VYF2633	BOTTOM PLATE ASS'Y	1				
	VMG1197	FOOT	1				
A CAMBRELL COMPANIES CO. CONTRACT.	VGF0527	FAN GUARD	1				1 0 0 0
	VMX2936 VMT0936	GUIDE SPACER GASKET	1	***************************************			
	VMC1483	GND PLATE	1	1.			
	VWP5356	MECHA ASS'Y FIXING PLATE	11	601 801 578700 47864 5111 4721464 5761	ANGEL CONTRACTOR CONTRACTOR CONTRACTOR		
	V=14 100	CONTRA					
	XTN4+10G XTV3+10GFZ	SCREW	5 4				
	XTV3+10GF2		8		4 46.10. 10.10.10.10.10. 10. 10.11. 10. 10.		**************************************
	XTV3+6FFR	Commence of the second control of the second	3				
and the supplementary of the state of the st	XTV3+6FFZ	SCREW	4				
	XTV3+8G	SCREW	4				n n
	XYE4+EF8 XQN26+A25FC	SCREW SCREW	3				
	XUC3F	E-RING	2				
59	XYN3+F5FZ	***************************************	4				
CONTRACTOR DE L'ANDERS DE LA CONTRACTOR	XSB4+4FCW		4		ļ		
61	XWC4BFY	WASHER					
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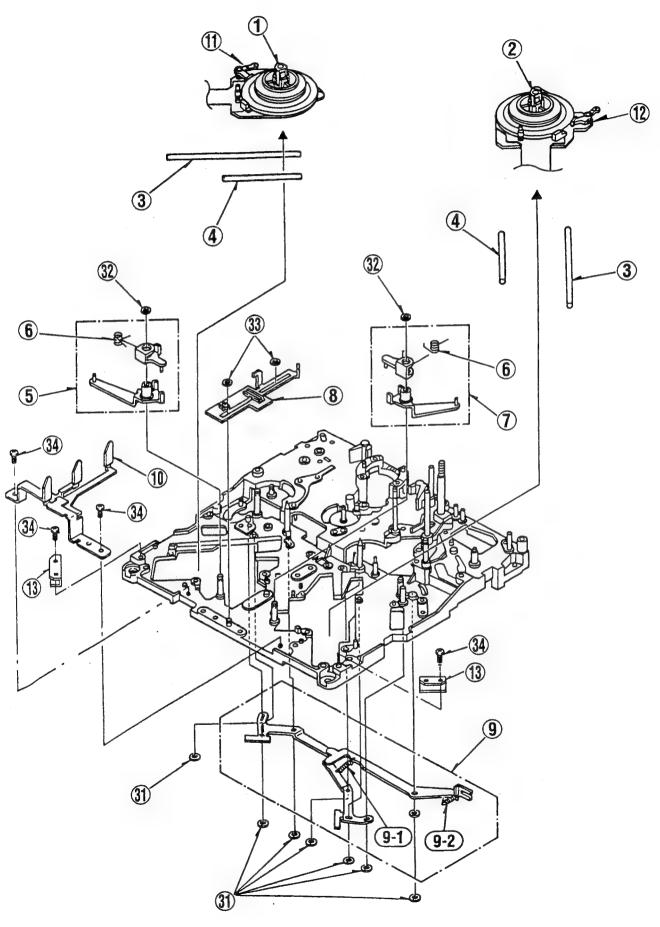
CASING PARTS ASSEMBLY 1 .(11) (F) PRT-2

MECHANICAL CHASSIS ASSEMBLY(1)

AJ-D250P

Ref. No.	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & DescriptionPo	s Remarks
								Trailer (G
	VEMO686	S REEL MOTOR A ASS'Y		(M)				
	VEM0687	T REEL MOTOR A ASS'Y		(M)				
	VMS5923 VMS5924	REEL OUTER RAIL REEL INNER RAIL	2]] .		! [
	VMS5924 VXL2589	S BASE DRIVE ARM ASS'Y	2	e e e e e e e e e e e e e e e e e e e]			
transcript to the state of the state of	VMB2944	CHARGE SPRING	2		11			
	VXL2590	T BASE DRIVE ARM ASS'Y	1] -	-	1	
	VXA5625	SLIDE ROD ASS'Y	1	Place a facilitate de la comunicación de la comunic				
	VXL2597	M STOPPER DRIVE ARM ASS'Y	1		11			·
9-1	VMB2955	M STOPPER SPRING (1)	1		11			
	VMB3017	M STOPPER SPRING (2)	1		11			
	VXA6174	L-M BRAKE RELEASE ASS'Y	1	St. 1844-1964 transcription				
	VXZ0439	S BRAKE ARM ASS'Y	. 1		11 .			
THE R. P. LEWIS CO., LANSING	VXZ0440	T BRAKE ARM ASS'Y	2		 	.		
13	VMZ2603	REEL FLEX. COVER	- 2	a manggaran apada magan nagan na	 			
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31	VMX1061	WASHER	7	***********				
32	VMX1079	CUT WASHER	2	t the entropy that the entropy of the entropy of the fact that the entropy of the				
	VMX1394	CUT WASHER	2	Charles of the control of the contro				
34	XON2+CF3	SCREW	4					
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MECHANICAL CHASSIS ASSEMBLY(1)



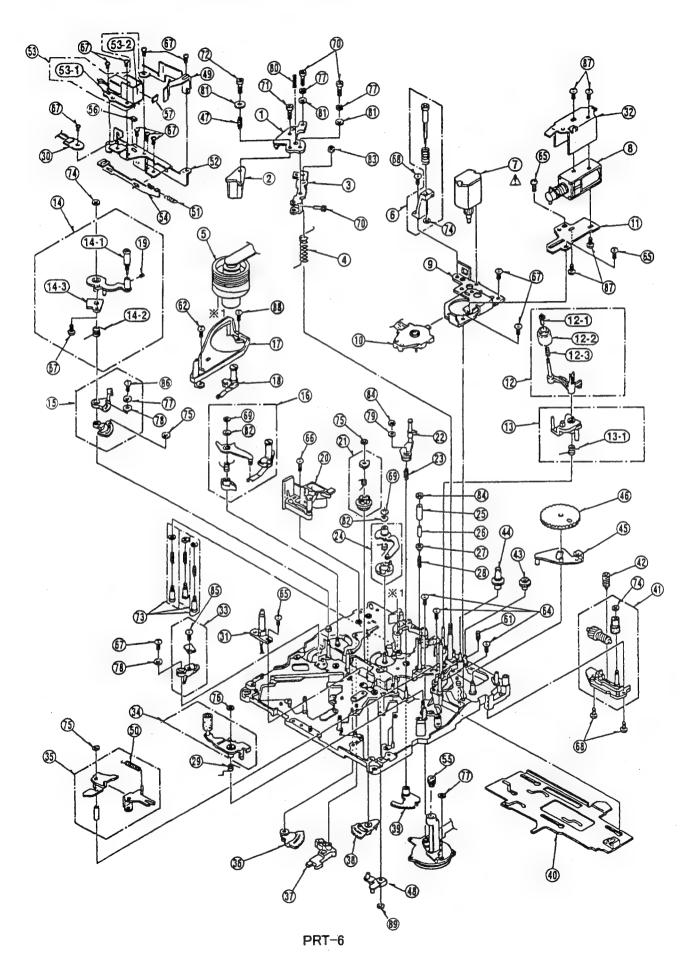
PRT-4

MECHANICAL CHASSIS ASSEMBLY(2)

AJ-D250P

Ref.No.	Part No.	Part Name & Description	Pes	Remarks	Ref. No.	Part No.	Part Name & DescriptionPc	_	Remarks
		1 (0 UEID D10E (1) 100E			67	XQN2+CF3	SCREW 1	2	
	VXA5554	A/C HEAD BASE (1) ASS'Y	- 1	(41)	68	XON2+CF4	SCREW	3	
	VED0419	A/C HEAD		(N)	69	XUC12FP	E-RING	2	**************************************
	VXA6067	A/C HEAD BASE (2) ASS'Y	1		70	XVE2B4FZ	HEX SCREW	3	
	VMB2935	A/C HEAD HIGHT SPRING	1		71	XVE2B6FP	HEX SCREW	1	
	VEG1498	CYLINDER UNIT	1	(M)	72	XVE2B12FP	HEX SCREW	1	
	VXA5715	EMARGENCY SHIFT HOLDER ASS'	1		73	VXQ0439	SCREW	3	
	VEM0645	LOADING MOTOR (1) A ASS'Y	1	(M)	74	VMX0967	CUT WASHER	3	
	V\$J0227	PINCH SOLENOID	1	(M)	75	VMX1061	WASHER	3	* * * * * * * * * * * * * * * * * * * *
	VXA5584	MOTOR ANGLE ASS'Y	1		76	VMX1079	CUT WASHER	1	
	VES0918	MODE SW ASS'Y	1	(M)	77	XWA2B	WASHER	4	
	VMA0A35	PINCH SOLENOID BASE			78	XWE2	WASHER	3	
	The section of the se	And the second of the second o		(M)	79	XWE16VW	WASHER	1	
	VXL2924	CLEANING ARM A ASS'Y		\M/				-	
	VMX2150	CLEANER ROLLER HOLDER	- 1		80	XXE2A6FP	HEX SCREW	1	
-2	VXP1963	CLEANER ROLLER ASS' Y	1		81	XWG2	WASHER	3	
-3	VMB3114	CLEANER ROLLER SPRING	1		82	XWGV15Z32G	WASHER	2	
	VXL2870	T2 ARM ASS'Y	- 1		83	VHD0045	NYLON NUT	1	
-1	VMB3304	T2 ARM SPRING	- 1		84	VHN0312	NUT	2	
	VXL2831	TENSION ARM A ASS'Y	1	(M)	85	XQN2+AQ3.5FZ	SCREW	1	
-1	VXP1761	TENSION ROLLER	1	*****	86	XQN2+AJ5	SCREW	1	
-2	VMB3220				87	XQN2+A1.5	SCREW	À	
	A CONTRACTOR OF SHIP BELLEVILLE OF CO.	TENSION LEG SPRING				XQN2+A4	SCREW	71 -	
-3	VXA6173	MAGNET HOLDER ASS'Y			88	A COMPLEX CONTRACTOR OF THE PARTY OF		1	
	VXA5791	TENSION LEG SPRING HOOK ASS	1	/40	89	VMX1394	CUT WASHER	4	an a server e community and a state of the community
	VXL2709	S1 LOADING ARM ASS'Y	- 1	(M)	*	VXY1512Z1	MECHANISM	4	
	VMD3731	LOADING RAIL	1			40.000.000.000.000.000			
	VXA6379	TI BOAT ASS'Y	1	(M)	L	1	L	1	
	VHD0561	HEX SCREW	- 1		1	1		-	
	VXA6052	S POST BASE A ASS'Y	1	(M)	1			1	
NT ME: 1 - 4 1 4 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4	VXP1683	T4 CONNECTION GEAR ASS'Y	1					-	
Marie de la constante de la co	VXL2772	T4 ARM ASS'Y	1	and a comment of the	1			1	
	VMB2950	T4 THRUST SPRING	1	and the second s		†		1	
	VXL2952	T LOADING ARM ASS'Y		(M)			1	1	
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***************************************	VMS5906	T3 UPPER FRANGE		***************************************	ļ				MINISTER CONTRACTOR AND AND AND AND ASSESSMENT OF THE PROPERTY
	VMS5905	T3 SLEEVE	1					-	
Made and the control	VMS5904	T3 LOWER FRANGE	1	* 1 p p 1 p 2 p p p p p p p p p p p p p p		1	1	1.	
	VMB2929	T3 SPRING	1				1	. [
	VMB2933	PINCH RELEASE SPRING	1					1	
	VEK7927	INSULLATION SENSOR	1						
	VEK8619	LED HOLDER A P. C. BOARD	1			T		1	
)	VMA9411	PINCH SOLENOID ANGLE	ī			1		1	
3	VXA5820	TENSION SENSOR ASS'Y	1	######################################		1	l	1	
	VXL2835	PINCH ARM ASS' Y	1	(M)	** \$100.00 (1. np 2000). (1. np. np. 22)	.		- -	Committee Committee of the Committee of
	VXL2588	PINCH GUIDE ARM ASS'Y	1	COMPACTORS		1	1		
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;	VXA5570	T SECTOR GEAR ASS' Y	. !	managaran da		1		-	
	VXL2838	TENSION LEG. GUIDE ARM	1				ļ. 		
	VXA5567	S SECTOR GEAR ASS'Y	1			.	.	.	
	VXA5564	T4 SECTOR GEAR ASS'Y	1		1	1			
	VXA6348	MAIN ROD ASS'Y	1			L	<u> </u>		
	VXA5627	THRUST SHAFT HOLDER ASS'Y	1	and the state of t					A CONTRACTOR OF THE CONTRACTOR
	VDG1166	MOTOR WARM GEAR	1		I		1		
	VDG1268	MOTOR EMARGENCY GEAR A(A)	1			T	1	+	
	VDG1267	MOTOR EMARGENCY GEAR B(A)	1	B LEATHER STREET, THE SHIMBERTHER	1			1	
	VXL2889	MAIN CAM ARM ASS'Y	1	MAN MAR ANNUAL SELECTION OF THE SECOND SECON	1	† * * * * * * * * * * * * * * * * * * *			
	VDG1168	MAIN CAM GEAR	1	(M)		1			
	to a management of the con-	A/C HEAD ADJUST SPRING	- 1	\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>			1	1	
	VMB2937	I TANAH AND	1	2		 	.	+-	
	VXL2600	EJECT ARM ASS'Y	1			_			
	VMD3475	T1 GUIDE ASS'Y	. 1						
	VMB2934	SPRING	1		***************************************				Note that the state of the stat
	VMB3051	CLEANER RETURN SPRING	1		1.				
	VXA6077	CLEANER BASE 1 ASS'Y	1	' ' ' 	1	[
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-1	VSJ0226	CLEANER SOLENOID	1	(M)	1	*	1	1	
-2	VMA9877	CLEANER SOLENOID BASE	1	· · · · · · · · · · · · · · · · · · ·	1.	1	1	1	
	VMM0429	CLEANER INTERLOCK	1						The same of the sa
	VXQ0556	THRUST SCREW ASS'Y	1	(M)	1	1	1		
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	VMT0871	SILENCER A	ı						
	VMT0872	SILENCER B	. 1	 	1 .				
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	VHD0356	SCREW	1			.		1	
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MECHANICAL CHASSIS ASSEMBLY(2)



SUB CHASSIS ASSEMBLY

Ref. No.	Part No.	Part Name & Description	Per	Remarks	Ref. No.	Part No.	Part Name & DescriptionP	٠.٠	Remarks
10.1.102.	Tare No.	Tart Hame & Description		III.III.I KO	100.11.107.	ruit inn	ter e reame de recoerror cont		IV.IIGT IV.
1	VXL2656	MIC DRIVE ARM (A) ASS'Y	1	., ., .,		1			
2	VMB3018	MIC DRIVE SPRING	1						
3	VXL2657	MIC DRIVE ARM (B) ASS'Y	1		***************************************				
4	VDB1429	MIC DRIVE ARM BOSS	1			1	· 1		
5	VXL2613	REEL DRIVE ARM ASS'Y	1			· · · · · · · · · · · · · · · · · · ·			
6	VDG1192	REEL DRIVE CAM GEAR	1			1			
7	VDG1193	REEL DRIVE WORM WHEEL	1			1			
8	VEM0585	REEL DRIVE MOTOR ASS'Y	- ;			1			
		4					. [
9	VDG1211	MIC GENEVA GEAR							
10	VXP1698	REEL DRIVE WORM ASS'Y	1						
11	VXA5628	MOTOR BASE ASS'Y	1						
12	VMB3019	MIC DRIVE RETURN SPRING	1						6-1
13	VEK7726	REEL SENSOR P. C. BOARD	1						
14	VSJ0216	BRAKE SOLENOID	3	(M)	П.	1			
15	VXA5575	S-BRAKE SOLENOID BASE ASS'Y	1						
17	VXA6199	DISTINCTION SW ASS'Y	1	(M)					
18	VXA5579	M STOPPER SOLENOID ASS'Y	i	· -		1	1		
19	VXA5887	T-BRAKE SOLENOID BASE ASS'Y	1						
20	VXK1543	SUB CHASSIS			~ ~ · ·				a contract of
21	VEK7692	SENSOR HOLDER ASS' Y	,						
		T BRAKE RELEASE ARM SHAFT		A STATE OF THE STA					
22	VMS6193	S BRAKE SPRING	- :				N	- 1	
23	VMB2957					ļ			(abanbara 117 - 27 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
24	VM82987	T BRAKE SPRING	1		-				
									
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31	XQN2+CF3	SCREW	13						and the state of t
32	XYN26+K6	SCREW	4						
33	XQN2+A1.5	SCREW	2						
34	XQN2+A2	SCREW	2	A DESCRIPTION OF THE PROPERTY	1				
35	VMX1079	CUT WASHER	5		l f	***************************************	***************************************		
36	VMX0967	CUT WASHER	4		11		l		
37	VMX1548	CUT WASHER	2						
38	XQN2+A1.5	SCREW	1 4			-			
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SUB CHASSIS ASSEMBLY E1) PRT-8

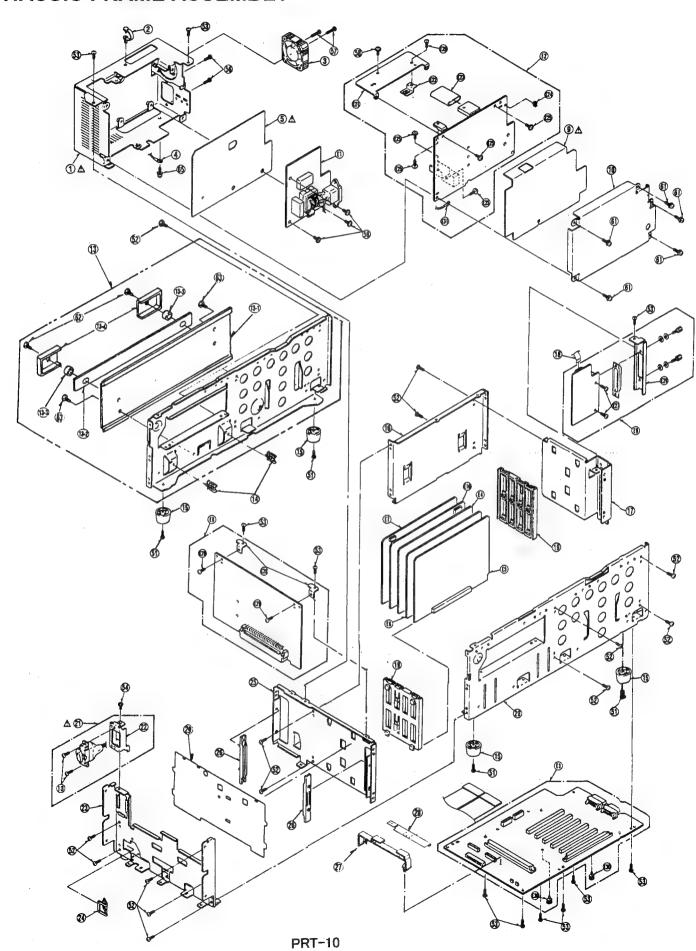
CHASSIS FRAME ASSEMBLY

AJ-D250P

Ref. No.	Part No.	Part Name & DescriptionPcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pes	Remarks
11	VSC4E36	SHIELD CASE 1					.	1 1 10 10
3	VJF0469 VRF0197	CLAMPER 1 FAN MOTOR 1						
4	VEE9627	FG CABLE						
<u>1</u> 5	VMZ2752	SHIELD SHEET A 1	and demand finds a school of colored to the colored to the school colored					and the second and th
<u>i</u> 9	VMZ2753	SHIELD SHEET B 1						THE PERSON NAMED ASSESSMENT OF
10	VSC4637	SHIELD COVER 1					1	
13	VYH0278	HANDLE ASS'Y						and an analysis and an analysis and an analysis and an angely
13-1	VGM1569	HANDLE DECORATION PLATE 1						The second secon
13-2	VKH0388	HANDLE 1						E
13-3	VMX2845	SPACER 2				A L MARKET L		
13-4	VMP5938	HANDLE ANGLE						an an ing ing ang ang ang day, quy quy ang ang ang an ang ang ang ang ang ang
14	VJF0004 VKA0117	WIRE SADDLE 2 PLASTIC FOOT 4					- 1	
16	VMP5365	REAR CENTER FRAME						H
17	VMP5353	BACK FRAME						
18	VWJ09SW220L0	232C FLAT CABLE						
19	VGQ4426	GUIDE RAIL L 2		***************************************		•		
20	VMP5351	SIDE FRAME (R) 1		***	The second of the control of the con	a within any day of the control of t		The Control of the Control
21	VES0858	POWER SWITCH 1						et man de se sons thought a recommendation of the se-
22	VMP5363	POWER SW BRACKET 1	THE WAY MAKE THE BOOK OF THE PROPERTY OF THE P	177 144 -8 -4 - 4 - 7				
23	VMP5361	FRONT FRAME					1	
24	VJF1259	EDGE HOLDER						
25	VMP5352	CENTER FRAME	gas communication of a professional and the particular and the second and the sec			man - dan ar t - stradametti ar an ambana an ar a a anga		
26	VGQ1016	GUIDE RAIL 2						
27	VKG0555 VMP5556	CONNECTOR HOLDER 1 CLAMPER ANGLE 1	With a selection of the late o					
29	VGF0723	BLIND SHEET		***************************************				
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51	XTV3+10F	SCREW 4	The state of the s				1	
52	XTV3+6F	SCREW 13	3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			A CALL TO SERVICE AND		
53	XTV3+6FFR	SCREW 9						
54	VHD5013	SCREW 1			**************************************			Hillian
55	XYE4+EF8	SCREW					-	
56 57	XSN3+8FZ XSB3+16FZS	SCREW 2	***************************************					TO THE HEAD STREET HEAD STREET AND A STREET A
58	XTW3+8LR	SCREW	THE COURT OF THE C				\cdot	
61	XYE3+EF8	SCREW			***************************************			
62	XSS4+14F	SCREW 2		***************************************			- †	t t tratem and not be appeared in a continuous annual agencies of
63	XTV3+6F	SCREW 2		Maria Colores Colores	***************************************		1	The second secon

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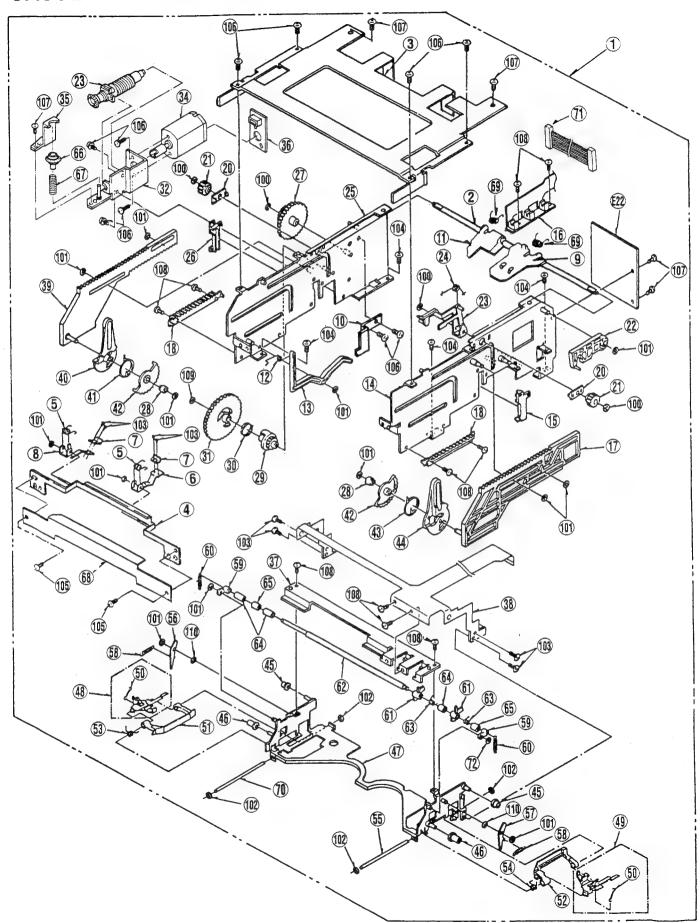
CHASSIS FRAME ASSEMBLY



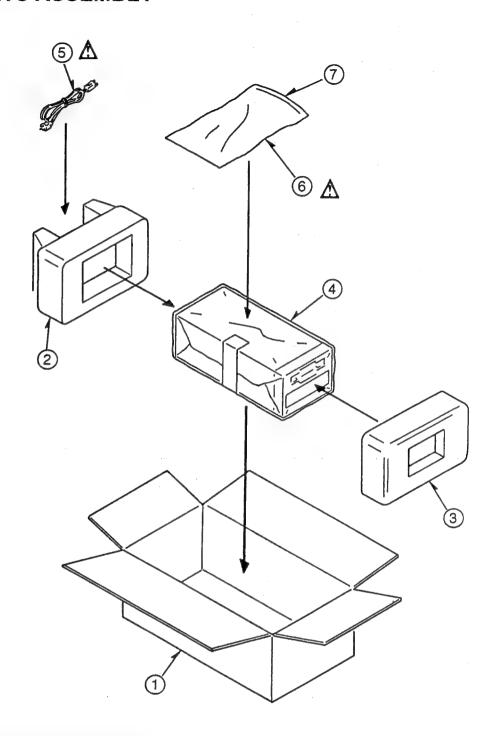
CASSETTE COMPARTMENT ASSEMBLY

	Part No.	Part Name & DescriptionP	,cs	Remarks	Ref. No.	Part No.		ame & Description	1	Remarks
1			I		104	XON2+CF3	SCREW		4	
1	/XA6593	CASSETTE COMPARTMENT	1		105,06	VHD1323	SCREW		7	
	VMS5865	MAIN SHAFT	- îl	· 1	107	XQN2+A3	SCREW		5	
	VMA9849	TOP PLATE	1	**************************************	108	LMHD16064	SCREW		10	
	a character of the contract of				109	XWGV2Y4G	WASHER		2	
	VXA6572	FRONT GUIDE 1 ASS'Y	-1					4 do 4	1 2	
	VMB3075	M GUIDE SPRING	2		110	XWGV2Z5G	WASHER		2	
ľ	VML3191	M GUIDE RIGHT LEVER	- 1		1.					
	VML3192	M FRONT GUIDE	2		1				1	
	VML3190	M GUIDE LEFT LEVER	1				1			
0.7	VML3397	CASSETTE PROTECT PLATE			E13	VEP80856A	CARRIGE	P. C. BOARD	1 1	1
	and the contract of the contra		-;-			112 000001			1	
,	VMA9760	L OPENER	- 4			ļ				
2	VMB2926	SPRING	- 11						1	
3	VML2A50	BLINDER PANEL OPENER	- 1				1		1	
4	VXA6074	R SIDE PLATE 1 ASS'Y	1		***************************************				Ţ	
	VML3282	SUB RAIL (R)	1 d				1			
agent or the formation			- ;†			†	1		1	
	VEK 7695	SIDE FLEXIBLE	-: -		and the Market of the Art of the Control of the Con	·				
1.00	VXA5766	MAIN RACK R ASS'Y	-11			ļ			1	
8	VDG1156	WIPER RACK	2					***************************************		
0	VDB1395	MAIN SHAFT ANGLE	2				1			
1	VDG1412	INTERLOCK GEAR	2	The second secon		1			T	
	VML3193	OPENER DRIVE ARM	1				-		1	
		The state of the s	- 1			.			1	
3	VXL2692	OPENER ANGLE ASS'Y	-4				1 .		1	
4	VMB2979	SPRING				1				
5	VXA6072	SIDE PLATE L 1 ASS'Y	1							
6	VML3281	SUB RAIL (L)	1	 						
	VDG1413	INTERMEDIATE GEAR	- 1		I		1		1	
8	VDP1643	WIPER ROLLER	2			1		Marie of Marie 1981 1981 1981 1981 1981 1981 1981 198	1	1
***************************************		CANADA CA	듺			t	1			
***************************************	VDG1414	CLUTCH GEAR	-4			1			+	
0	VMB2980	CLUTCH SPRING	. 1	and the second of the second o					1	
1	VDG1236	WORM WHEEL	1	or prompted to a state of the s	perspectation of the second of the second				.]	
2	VXA5848	MOTOR ANGLE (A) ASS'Y	1		L	L			1	
3	VXP1797	E.E SLOT IN WORM ASS'Y	1	THE RESIDENCE OF THE PERSON OF	I	I			1	
4	VXA5597	MOTOR ASS' Y	1	(M)		T	1		1	1
			-;	A CONTRACTOR OF THE PROPERTY O	eggs parenteens at terrestic statement and				+	10 14-14-14-14-1
5	VMA9673	EMARGENCY ANGLE	-:		18 100 000 000				1	1
6	VEK7793	MOTOR P. C. BOARD	4	THE PERSON NAMED IN THE PE	promotype on the control of the cont					
7	VMA9668	HOLDER PLATE	1					- magnatur or or or to 1 to 10		
8	VEK7715	HOLDER FLEXIBLE ASS'Y	1			4	1			
19	VXA6075	MAIN RACK (L) ASS'Y	1			1	1			
0	VML3485	WIPER ARM L	1	er engan e gegenelet yilde to endre elden databasenda anna ar en yer har yildel hali. En lede Alice rada anna	***************************************		1	december 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	1	
	THE OR MINISTERNAL PROPERTY OF THE PARTY OF	WIPER SPRING L				†	1		1	1
1	VMB3391	The second secon	!		MARK 4 1 11.11.1 11.11.1				+	
2	VDG1163	WIPER GEAR	2		Manufacture 4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4.	
13	VMB3390	WIPER SPRING R	1	and the state of t				4	1	A STATE OF THE STA
14	VML3484	WIPER ARM R	1							
15	VDP1642	CASSETTE GUIDE ROLLER (2)	2	THE PLANT PL						1
16	VDP1641	CASSETTE GUIDE ROLLER (1)	2	AND	ľ				1	
		CASSETTE HOLDER 1 ASS' Y	1	haddan Haddingles, of spike ejectorist experience from EEF of all relations of the adversaries					1	
7	VXA5757								+ -	
8	VXA5758	ROD L				.+			+	4
9	VXA5759	ROD R	_1			May 84 - 84 - 84 - 128 -		4. Charles and T. Arthodologica (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		
i0	VMB3064	SLIDE SPRING	2							1
i1	VML3249	SIDE GUIDE L	il		1	L	1		1	
2	VML3250	SIDE GUIDE R	1			Τ	T		1	
3	VMB3061	SLIDE GUIDE SPRING L		THE RESERVE THE PARTY OF THE PA			T	an administration of the control of	1	1. Manual of the same of the s
	According to the second	and the same of the contract of the same o		, again an ama an a a a a a ann an amainm an an			1			
4	VMB3062	SLIDE GUIDE SPRING R				AND MAKE AND AND AND THE SHEET AND A SHEET			-+	
5	VMS6666	KICK OFF ROD SHAFT	2				4		1	1
6	VML2A54	KICK OFF ARM L	1	THE STATE OF					4	
7	VML2A55	KICK OFF ARM R	1			L			1	
8	VMB2928	KICK OFF SPRING	2	Market Ma		1				
9	VML2A53	CASSETTE HOLDER ARM	2			1	1			
		CASSETTE HOLDER SPRING	7	aarra, raasa raastaina, sin jahongka alak aka akaba ee espakany proportionisto, or tour otti ottista touristista sin salah s	Description - 120-12-16000-01-0-				· · · · · ·	
0	VMB2927	The state of the s		- (1)		-	1		1	
1	VMX2833	ML DETECTION ROLLER	4		 	1				
2	VMS5882	CASSETTE HOLDER SHAFT		haddhar i gega jegator, conquest to est a same and the sa	ļ	J				
3	VMB3253	M-L DETECTION SPRING	2	[] <u>.</u> 1		1.				1
4	VMX2559	CASSETTE PRESSURE ROLLER(2)	3			1	1.			
5	VMX2524	CASSETTE PRESSURE ROLLER(1)	1			***************************************		**************************************		
	and the second second	EMARGENCY GEAR			1	1	1		1	
6	VDG1246				 					
7	VMB3109	EMARGENCY SPRING								
8	VMZ2661	FRONT GUIDE COVER	1		1					
1	VEE9577	CABLE	l il	"	1					
***************************************		10 10 10 10 10 10 10 10 10 10 10 10 10 1			I			and the second s		
						1			1	1
			-	and the second s	.	+				
					.					
00	VMX0653	CUT WASHER	4		1	1				
01	VMX0967	CUT WASHER	14		1	1				1
	VMX1061	WASHER	4			1		- Approximation - Control of the Latest Control of the Control of	1	
12		1	ι'l		1	I	1		- 1	1
02 03	XQN16+A2	SCREW	e l		1	1			- 1	1

CASSETTE COMPARTMENT ASSEMBLY



PACKING PARTS ASSEMBLY



PACKING PARTS ASSEMBLY

AJ-D250P

Ref. No.	Part No.	Part Name & DescriptionPc	Remarks	Ref. No.	Part No.	Part Name & Description	Pes	Remarks
The second of the second of		PACKING CASE						
		CUSHION (R)					l l	
1	20	CUSHION (L)						
P		POLYETHYLENE BAG						
the first on the second of the second		POWER CODE						
		OPERATING INSTRUCTIONS I E.EJECT ASS'Y 1						
						Marie California (1977)		

ELECTRICAL REPLACEMENT PARTS LIST

	7 1 1 110							AO DE001
Ref. No.	Part No.	Part Name & Description	Pes	Remarks	Ref. No.	Part No.	Part Name & DescriptionPcs Ren	arks
■ E1	VEP01791A	POWER 1 P.C.BOARD	1	(RTL)	■ E1	VEP01791A	POWER 1 P.C.BOARD 1 (RTL)	
■ E2	VEP01792A	POWER 2 P.C.BOARD	1	(RTL)	i C1101,02	ECOU2A224MV	P. CAPACITOR 100V 0.22U 2	
■ E3	VEP000E6A	MOTHER P.C.BOARD	1	(RTL)	.i F1101	XBA1C25NB5	FUSE 1	
■ E4	VEP03E32B	TBC P.C.BOARD	1	(RTL)	i. L1101	ELF18D602	FILTER 1	
■ E5	VEP03F00A	DIGITAL CORE P.C.BOARD	. 1	(RTL)	i P1101	VJS2985	CONNECTOR (FEMALE)	
■ E6	VEP03F01A	VIDEO 1/0 P.C.BOARD		(RTL)	P1102	VJP2639	CONNECTOR (MALE)	Manager organization of the second se
■ E7	VEP04737A	AUDIO P. C. BOARD	1	(RTL)	j. R1101	ERC12AGM334	S. RESISTOR 1/2W 330K 1	
■ E8	VEP05348C	RF P.C.BOARD	1	(ATL)			MISCELLANEOUS	
■ E9	VEP06B93B	RS-232C P.C.BOARD		(RTL)		VJF0867 VEE9627	CONNECTOR SPACER 1 FG CABLE 1	
■ E10	VEP06D02A	AV SYSCON P.C. BOARD		(RTL)		VMZ0429	FUSE COVER 1	2011-10-10-10-10-10-10-10-10-10-10-10-10-
E E11	VEP03F25A	REAR JACK P. C. BOARD		(RTL)				pr
■ E12 ■	VEP06B94C VEP00Y35B	FRONT P.C.BOARD REMOTE P.C.BOARD	1	(RTL) FOR VEP06B94C	■ E2	VEP01792A	POWER 2 P. C. BOARD 1 (RTL)	*** ** ** *** **** **** **** **** **** ****
■ E13	VEP80856A	CARRIGE P.C.BOARD	1	(RTL)				
■ E14	VEP02545J	SERVO P. C. BOARD	1	(RTL)	C1001,02	VCK0260M222A Ecou2A224MV	C. CAPACITOR 2200P 2 P. CAPACITOR 100V 0.22U 1	
■ E15	VEP00Y68A	FFC P. C. BOARD	1	(RTL)	1, C1004 C1006	VCK0260M102A ECEC2GB221D	C. CAPACITOR 1000P 1 E. CAPACITOR 400V 220U 1	
■ E16	VEK7793	MOTOR P.C.BOARD	1	(RTL)	C1007 C1008	VCK0106K151 EC0E6473KF	C. CAPACITOR 150P 1 P. CAPACITOR 630V 0. 047U 1	
■ E17	VEK8619	LED HOLDER P. C. BOARD	. 1	(RTL)	C1010 C1011	ECA1VXLV470 ECA0GXLV331	E. CAPACITOR 35V 47U 1 E. CAPACITOR 4V 330U 1	
■ E18	VEK7726	REEL DRIVE SENSOR P. C. BOARD	1	(RTL)	C1012 C1013	ECOB1H102JF ECKF1H271KB	P. CAPACITOR 50V 1000P 1 C. CAPACITOR 50V 270P 1	
					C1020 C1021,22	EEUFA1E681E EEUFA1A562E	E. CAPACITOR 25V 680P 1 E. CAPACITOR 10V 5600U 2	
				Committee of the state of the s	C1023 C1024 C1025	EEUFA1A122E EEUFA1E471E ECA1EHG101	E. CAPACITOR 10V 1200U 1 E. CAPACITOR 25V 470U 1 E. CAPACITOR 25V 100U 1	
				*** **********************************	C1025 C1026 C1027-29	ECOB1H104JF ECA1CHG101	P. CAPACITOR 50V 0.1U 1 E. CAPACITOR 16V 100U 3	
					C1030, 31 C1032	ECA1EHG101 ECOB1H104JF	E. CAPACITOR 25V 100U 2 P. CAPACITOR 50V 0.1U 1	
					C1033	ECOB1H473JF ECKD2H101KB	P. CAPACITOR 50V 0. 047U 1 C. CAPACITOR 500V 100P 4	Herente and the state of the st
					C1038 C1039	ECA1EHG101 ECOB1H104JF	E. CAPACITOR 25V 100U 1 P. CAPACITOR 50V 0,1U 1	
					D1001	D3SBA60	DIODE 1	174 * W * *
					D1003 D1004	AP01C ERA22-02	D100E 1 D100E 1	
					D1005 D1006	MA4240-L MA723	D100E 1	
				RECOMMENDED OF THE PERSON OF T	D1010 D1011 D1012	RL4ZP FMB-24H 31D004	D100E 1 D100E D100E	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				D1012 D1013	RL2ZP MA4130L	D100E 1 D100E 1	
	According to the second section for the				D1016	310004	DIODE 1	independent of the other lates of the second
					! IC1001 IC1002	STRM6545 UPC1093J	IC 1	
					IC1003	AN7912F	IC 1	
					JI	VEE0B00	CABLE 1	
	-				1	ELF180602 EXCELSA35	FILTER 1 COIL 2	
					L1010	VL00655K220 VL00354	COIL 22UH 1 COIL 1	M. C.
					L1012	VL00605	COIL	·
	<u> </u>	L.	<u>_</u>		L		1	

Ref. No.	Part No.	Part Name & Description	Pes	Remarks	Ref. No.	Part No.	Part Name & Description	Pc	Remarks
L1013, 14	VLQ0655K220	COIL 22UH	2	and the transfer of the contract of the contra	C9127	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	
12.22.5		7			C9128	ECEA1CGE470	E. CAPACITOR 16V 47U		
P1001	VJP2639	CONNECTOR (MALE) CONNECTOR (MALE)	- 1		C9129, 30 C9131	ECUM1H104ZFN ECEA1CGE470	C. CAPACITOR CH 50V 0.1U E. CAPACITOR 16V 47U	1	
P1002, 03 P1004	VJP3324 VJP1230T	CONNECTOR (MALE) 3P	1		C9132, 33	ECUMIHIO4ZFN	C. CAPACITOR CH 50V 0.1U		
F1004	VJF12301	CONNECTOR (MALL) 3F			C9134	ECEA1CGE470	E. CAPACITOR 01 30V 0.10	1	
01001	PC111LY1	PHOTO COUPLER	1		C9135, 36	ECUMIH104ZFN	C. CAPACITOR CH 50V 0.1U	1 2	
01002	2SD1474	TRANSISTOR	1		C9137	ECEV1CV4700	E. CAPACITOR CH 16V 47U	1	
CHANGE OF THE PARTY OF THE PART				1 mark 1 mark 1 MAL 14 14 14 14 14 14 14 14 14 14 14 14 14	C9138, 39	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1)
R1001	ERUSTEK 2R2	F.RESISTOR 5W 2.2	1		C9140	ECEV1CV4700	E. CAPACITOR CH 16V 47U		
R1003	ERDS2T0	C.RESISTOR 1/4W 0	. 1		C9141, 42	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1.3	
R1004	ERG3SJ393	M. RESISTOR 3W 39K	. 1		C9143	ECEA1CGE470	E. CAPACITOR 16V 47U		
R1005-07	ERG1SJ473	M. RESISTOR 1W 47K	3		C9144-46	ECUMIHIO4ZFN	C. CAPACITOR CH 50V 0.1U	1	De la companya da dela companya dela companya da dela companya dela compan
R1008 R1009, 10	ERDS2FJ221 ERDS2FJ271	C.RESISTOR 1/4W 220 C.RESISTOR 1/4W 270	2		C9147 C9148, 49	ECEA1CGE470 ECUM1H104ZFN	E. CAPACITOR 16V 47U C. CAPACITOR CH 50V 0.1U	١,	
R1011	ERW1PKR39	W. RESISTOR 1W 0.39	1		C9150	ECEA1CGE470	E. CAPACITOR 16V 47U		
R1012	ERDS2FJ152	C. RESISTOR 1/4W 1.5K	1		C9151,52	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U		
R1013	ERDS2FJ101	C. RESISTOR 1/4W 100	1	• • • • • • • • • • • • • • • • • • • •	C9153	ECEA1CGE470	E. CAPACITOR 16V 47U	1	
R1014	ERDS2FJ332	C. RESISTOR 1/4W 3.3K	1		C9154	ECUMIH104ZFN	C. CAPACITOR CH 50V 0.1U	Ī	
R1015, 16	ERDS1TJ395	C.RESISTOR 1/2W 3.9M	2	No to prosper company contract per company contract	C9155	ECEA1CGE470	E. CAPACITOR 16V 47U		
R1017	ERDS2FJ103	C. RESISTOR 1/4W 10K	1		C9156, 57	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U		2
R1020	ERDS2TJ681	C. RESISTOR 1/4W 680	1		C9158	ECEA1CGE470	E. CAPACITOR 16V 47U		
R1021	ERG2SJ681 ERG2SJ471	M. RESISTOR 2W 680 M. RESISTOR 2W 470	1		C9159 C9161	ECUM1H104ZFN ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U C. CAPACITOR CH 50V 0.1U	-	
R1022 R1024	ER0S2CKF1801	M. RESISTOR 1/4W 1.8K	1		C9162	ECEA1CGE470	E. CAPACITOR CH SOV 0.10		
R1025	ER0S2CKF3601	M. RESISTOR 1/4W 3.6K	i	approximation of the same of t	C9163, 64	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	2
R1026	ERDS2TJ561	C.RESISTOR 1/4W 560	1		C9165	ECEA1CGE470	E. CAPACITOR 16V 47U	1	
R1027, 28	ERDS2T0	C. RESISTOR 1/4W 0	2		C9166-68	ECUMIH104ZFN	C. CAPACITOR CH 50V 0.1U		3
R1029	ER0S2CKF4300	M.RESISTOR 1/4W 430	1		C9169	ECEA1CGE470	E. CAPACITOR 16V 47U		
R1031	ERDS2TJ223	C. RESISTOR 1/4W 22K	. 1	A LANGE CONTRACTOR OF THE CONT	C9170,71	ECUMIH104ZFN	C. CAPACITOR CH 50V 0.1U	1	?
R1032	ERDS2TJ271	C. RESISTOR 1/4W 270	1	· · · · · · · · · · · · · · · · · · ·	C9172	ECEA1CGE470	E. CAPACITOR 16V 47U		
R1033	ERG2SJ681	M. RESISTOR 2W 680	-2	make the second	C9173, 74	ECEA1CGE470	C. CAPACITOR CH 50V 0.1U E. CAPACITOR 16V 47U		
1, T1001	VLT0885	TRANSFORMER		er pyrodyn roggogle Melode had oddinen enwel i neu der der er i den er	C9176	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	-	
1, 11001	14210003	III A O O MALI	-	and the second s	C9177	ECEA1CGE470	E. CAPACITOR 16V 47U		
TP1001	VJR0646	TEST POINT	1		C9178,79	ECUMIHI04ZFN	C. CAPACITOR CH 50V 0.1U		2
,,					C9180	ECEA1CGE470	E. CAPACITOR 16V 47U		I
VR1001	VRV0112B501	V. RESISTOR 500	1		C9181-83	ECUM1H1042FN	C. CAPACITOR CH 50V 0.1U		
			Ι.		C9184	ECEA1CGE470	E. CAPACITOR 16V 47U		
		MISCELLANEOUS		ar gamentonicono con esta esta esta esta esta esta esta esta	C9188, 89	ECUMIHI04ZFN	C. CAPACITOR CH 50V 0.1U		
	V 150406	CLAMPER	١,	e i nagas, and the the table to a fine the table of the second of the se	C9190, 91 C9192-94	ECEA1CGE470 ECUM1H104ZFN	C. CAPACITOR 16V 47U	1	
	VJF0496 VJF0867	CONNECTOR SPACER	;		C9192-34	ECEA1CGE470	E. CAPACITOR 16V 47U		,
	VMP5282	TRANSISTOR CLIP	1		C9196, 97	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	2
1.	VMZ0965	CAPACITOR COVER	3		C9198	ECEA1CGE470	E. CAPACITOR 16V 47U	1	
	VSC3434	HEAT SINK	2		C9199	ECEA1CGE101	E. CAPACITOR 16V 100U		
	XTN3+8J	SCREW	1	* " "	C9200	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U		!
MANUAL CO. C. MANUAL CO. C.	XYN3+K8	SCREW	5	Magniable has age of pape proceeding every properly and the second section of the second security and the second second security and the second	C9201	ECEA0JGE471	E. CAPACITOR 6.3V 470U	4	namental and the contract of t
	VSC4638	HEAT SINK	- !		C9203	4	C. CAPACITOR CH 50V 2700P	L.	
***************************************				National and the statement of the stat	C9204 C9205	ECUM1H332KBN ECA1VFQ561	E. CAPACITOR CH 50V 3300P		
		MARKET NEW YORK AND		R (18) M (1) PP II provide a medical abbase on a former man have a	C9210	ECEA1HGE2R2	E. CAPACITOR 50V 2.2U		
				a and the second of the second	C9211	ECUM1H104ZFN	C. CAPACITOR CH SOV 0.1U	١.	
	Manufiel at the 188 to 111 to		ļ	A CONTRACTOR OF THE STATE OF TH	C9212	ECEA1CGE101	E. CAPACITOR 16V 100U		
■ E3	VEP000E6A	MOTHER P. C. BOARD	1	(RTL)	C9213	ECEA1CGE470	E. CAPACITOR 16V 47U		
					C9251	ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U		
					C9252	ECEA1CGE101	E. CAPACITOR 16V 100U		
		C. CAPACITOR CH 50V 0.1U	2		C9253	EEUFC1A102	E. CAPACITOR 10V 100U	1	Maria de la companio del companio de la companio de la companio del companio de la companio della companio de la companio de la companio della companio dell
C9103	The second secon	E. CAPACITOR 16V 47U			C9254 C9304-06	ECUMTH103KBN ECUMTH104ZFN	C. CAPACITOR CH 50V 0.01U		
C9104 C9105	ECEA1CGE470	C. CAPACITOR CH 50V 0.1U E. CAPACITOR 16V 47U	1		C9501	ECEC1CP1238	E. CAPACITOR CH SOV 0.10		
C9106, 07		C. CAPACITOR CH 50V 0.1U	2		3000	1		1	
C9108	ECEA1CGE470	E. CAPACITOR 16V 47U	1		09101,02	MA3062M	DIODE	1 :	2
C9109, 10		C. CAPACITOR CH 50V 0.1U	2		D9103	8P2M	DIODE		
C9111	ECEA1CGE470	E. CAPACITOR 16V 47U	1		D9104	MA4030-L	DIODE		
C9112-14		C. CAPACITOR CH 50V 0.1U	3		D9105-07	MIMA151K	DIODE		
C9115	ECEA1CGE470	E. CAPACITOR 16V 47U	!		D9108	MA701A	DIODE		
C9116		C. CAPACITOR CH 50V 0.1U			D9109-15	M1MA151K SFPB~64	D100E	1	The state of the s
C9117	ECEATCGE470	E. CAPACITOR 16V 47U C. CAPACITOR CH 50V 0.1U	1		D9116 D9201	SEP8~64 MAT15	DIODE	.	
C9118, 19 C9120		C, CAPACITOR CH 50V 0.1U E. CAPACITOR 16V 47U	1		D9202	MA4270	DIODE	1	
C9121		C. CAPACITOR CH 50V 0.1U	i		D9204	MA115	DIODE	1	
C9122		E. CAPACITOR 16V 47U	ĺ		D9205	MA3062M	DIODE		
		C. CAPACITOR CH 50V 0.1U	3	88.54.88. 1877 - 188 ⁴ / 1817 - 1991 - Papper de constitution de la 1884 de la 18 84 de la 1884 d					and the second of the second s
C9123-25	ECOMITH 1042FIN					l	1	1	
C9123-25 C9126	1	E. CAPACITOR 16V 47U	1		FL9101-16	VLF-0931	FILTER	16	i

Ref. No.	Part No.	Part Name & DescriptionPcs	Remarks	Ref.No.	Part No.	Part Name & Description	Pes	Remarks
				TP9251	EYF6CU	TEST POINT	1	
109101	XC62AP5002P	IC 1		VR9251	EVM7JGA00B13	V. RESISTOR 1K	١,	
109103	XC62DN5002P	IC	and an analysis of the state of	VR9501	EVMEASA00B54	V. RESISTOR 50K	'	
IC9104	AN78M09	IC 1	į	703301	EVMENSAU0034	V. IEGISTON SOK	Ι΄	
IC9105	UPC393G2	IC 1				MISCELLANEOUS	1	
IC9106 IC9301	LM2675M-ADJ UPC4558G2	16				TIOOLESA EGO		
109302	TC7SH00F	IC 1	*		VKC0295	BOARD SPACER	1	
	10,0,0			**************************************			1	
J9101,02	ERJ8GEYOROO	M. RESISTOR CH 1/8W 0 2			i			1
	1		at 91.					
L9251	VL00765	COIL 1			1			
L9252	ERJ8GEY0R00	M. RESISTOR CH 1/8W 0 1	. 1					
L9253-55	VL00319K1R0	COIL 1.0UH 3		■ E4	VEP03E32B	TBC P. C. BOARD	1	(RTL)
							1.	
P9101,02	VJS3324	CONNECTOR (FEMALE) 2					1	a constraint and an analysis of the second
P9301	VJS2898A064P	CONNECTOR (FEMALE) 1		C3001	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	
P9304-07	VJS4064N160	CONNECTOR 4		C3002-05	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	
P9308	VJS3537B024G	CONNECTOR (FEMALE) 1		C3006	ECEV1CV2200	E. CAPACITOR CH 16V 22U	1.3	Commence of the commence of th
P9310, 11	VJS3600F016K	CONNECTOR (FEMALE) 2	property of the second second second second second second second second	C3007,08	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	2	
P9312	VJS4064N160	CONNECTOR 1	900-1-000 0.000-0 0.000000000000000000000	C3009	ECEVOJV1010	E. CAPACITOR CH6. 3V 100U	1	
P9501	VJS2899A096	CONNECTOR (FEMALE) 1		C3010	ECEV1CV4700	E. CAPACITOR CH 16V 47U		The state of the s
P9502	VJP1231T	CONNECTOR (MALE) 4P 1	Depart - registrate (from 1 cm - 1 agents 2 cm - 1 agents and a company of the co	C3011	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	-	
P9503	VJP1230T	CONNECTOR (MALE) 3P 1		C3012	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	[]	THE RESIDENCE OF THE CONTROL OF
P9504, 05	VJP3949C070H	CONNECTOR (MALE) 2		C3013	ECEVICV2200	E. CAPACITOR CH 16V 22U	1	National Company of the Company of t
00101	0000100	TOMOLOTOS		C3014-17	ECUX1E104ZFV ECUX1H102JCV	C. CAPACITOR CH 25V 0.1U C. CAPACITOR CH 50V 1000P	1 :	The state of the s
09101	2SD2136-0	TRANSISTOR 1		C3018	Annual Control of the	C. CAPACITOR CH 50V 1000P C. CAPACITOR CH 25V 0.1U	1	
Q9102, 03 Q9106-10	2SB1073-R 2SD1119-R	TRANSISTOR 2 TRANSISTOR 5		C3019, 20 C3021, 22	ECEVICV2200	E. CAPACITOR CH 16V 22U		
	+	• • • • • • • • • • • • • • • • • • • •		C3021, 22	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1 3	
09112 09113	2SD1119-R 2SB709A-R	TRANSISTOR 1		C3025, 24	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	
09115	2SD601A-R	TRANSISTOR 1		C3026	ECUX1E681JCV	C. CAPACITOR CH 25V 680P	-	
Q9116	2SB709A-R	TRANSISTOR 1	•	C3028-30	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U	1 3	
09117	2SD1119-R	TRANSISTOR 1	ERFELTIN ELLELISETE I I PRESENTANTANTANTANTANTANTANTANTANTANTANTANTAN	C3031	ECEV1CV2200	E. CAPACITOR CH 16V 22U	1	
Q9202	2SD601A-R	TRANSISTOR 1		C3032	ECEV1CV4700	E. CAPACITOR CH 16V 47U	1	
Q9203	2SC3074Y	TRANSISTOR 1		C3033	ECUX 1H820JCV	C. CAPACITOR CH 50V 82P	1	
45205	20030741		Canada Cara Cara Cara Cara Cara Cara Cara C	C3034	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	The second secon
QR9101	UN2113	TRANSISTOR-RESISTOR 1	· · ·	C3035	ECEVICV2200	E. CAPACITOR CH 16V 22U	13	1170 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
QR9102	UN2211	TRANSISTOR-RESISTOR 1	ANDARIA I TITL INNATE ETTA ENATERE ET MENDALET MINNE ET MENDE ET EN ET EN ET EN ET ET MENDE ET MENDE ET MANNE MEN	C3036, 37	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1 2	
				C3038	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
R9101	ERJ6GEYJ4R7	M. RESISTOR CH 1/10W 4.7K 1		C3039	ECEV1CV2200	E. CAPACITOR CH 16V 22U	1	
R9102,03	ERJ6GEYG560	M. RESISTOR CH 1/10W 56 2		C3041	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U		
R9106-10	ERJ6GEYG560	M. RESISTOR CH 1/10W 56 5		C3043	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
R9112	ERJ6GEYG560	M. RESISTOR CH 1/10W 56 I		C3044-46	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	
R9116	ERJ6GEYG680	M. RESISTOR CH 1/10W 68 1		C3047	ECUX1H152KBV	C. CAPACITOR CH 50V 1500P	1	
R9120	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K 1		C3048-50	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1 3	
R9121	ERJ6GEYG331	M. RESISTOR CH 1/10W 330 1	-	C3051	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P		
R9122	ERJ6GEYG181	M. RESISTOR CH 1/10W 180 1	0.00.00.00.00.00.00.00.00.00.00.00.00.0	C3054, 55	ECEV1HN0100	E. CAPACITOR CH 50V 1U	1 3	
R9123	ERJ6GEYG121	1 1		C3056	ECUX1E104ZFV	The second secon		
R9124	ERJ6GEYG182	M. RESISTOR CH 1/10W 1.8K 1		C3057	ECUX1H470JCV ECUX1H060DCV	C. CAPACITOR CH 50V 47P C. CAPACITOR CH 50V 6P	-	
R9125	ERJ6GEYG101	M. RESISTOR CH 1/10W 100 1		C3058 C3060, 61	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1)
R9126 R9127, 28	ERJ6GEYJ820 ERJ6GEYG101	M. RESISTOR CH 1/10W 82 1 M. RESISTOR CH 1/10W 100 2	-	C3101-17	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	7
R9127, 28	ERJ6GEYG101	M. RESISTOR CH 1/10W 100 2	egy gy-gite- regggerer regelementer rennadi denkorralita skandibilani. Mahilika de 2 establish	C3201-09	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1 3	***************************************
R9130	ERJ6GEYG331	M. RESISTOR CH 1/10W 330 1		C3210	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U		
R9131	ERJ6GEYG224	M. RESISTOR CH 1/10W 220K 1		C3211	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	The the formula as let a following leading to the consequence of the c
R9132-37	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 6		C3212	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	The Association of the Control of th
R9138-40	ERJ6GEYG680	M. RESISTOR CH 1/10W 68 3	·	C3214	ECUX1H331JCV	C. CAPACITOR CH 50V 330P	1	
R9141	ERJ6GEYG821	M. RESISTOR CH 1/10W 820 1	les com a company of the debits of the contract of the black of the contract of the black of the	C3216-22	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	7	7
R9144	ERJ6GEYG680	M. RESISTOR CH 1/10W 68 1		C3223	ECEV1EN3R30	E. CAPACITOR CH 25V 3.3U	1	
R9152	ERJ6GEYG560	M. RESISTOR CH 1/10W 56 1		C3224, 25	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1 2	
R9201	ER012HJ1R0P	F.RESISTOR 1/2W 1 1		C3226	ECEV1EN3R30	E. CAPACITOR CH 25V 3.3U	1	
R9202	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K 1		C3227	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1 !	AL MANAGEMENT AND
R9204, 05	ERJ6GEYG221	M. RESISTOR CH 1/10W 220 2		C3229	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	}
R9206	ERJ6GEYG680	M. RESISTOR CH 1/10W 68 1		C3230, 31	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1 2	
R9207	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0 1		C3232	ECUX1H151JCV	C. CAPACITOR CH 50V 150P	'	
R9208	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K 1		C3233	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U		
R9252	ERJ6GEYG182	M. RESISTOR CH 1/10W 1.8K 1		C3234	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1	The state of the s
R9253	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K 1		C3235, 36	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	13	
R9308, 09	ERJ6GEYF473	M. RESISTOR CH 1/10W 47K 2		C3237, 38	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	
Toos				C3239-41	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U		
T9201	VLT0889	TRANSFORMER 1		C3242	ECUXIHI01JCV	C. CAPACITOR CH SOV 100P		* .
TOACE	evecou	TEGT POUNT		C3244-47	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1.	7
TG9251	EYF6CU	TEST POINT		C3301-17	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	17	
		1		C3318, 19	ECEV1CV4700	E. CAPACITOR CH 16V 47U	1 3	
			1					1

Ref. No.	Part No.	Part Name & DescriptionPcs	Remarks	Ref.No.	Part No.	Part Name & DescriptionPo	s Remarks
		E. CAPACITOR CH6.3V 100U 1		C3608, 09	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2
C3321	ECEV1CV4700	E. CAPACITOR CH 16V 47U 1		C3610	ECUX1H150JCV	C. CAPACITOR CH 50V 15P	1
	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U 2	and the state of t	C3611	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1
100	ECEV1CV2200	E. CAPACITOR CH 16V 22U 1		C3612	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1]
	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U 6		C3613	ECUX1H470JCV	C. CAPACITOR CH 50V 47P	1
		E. CAPACITOR CH 16V 47U 1		C3614	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	7
		E. CAPACITOR CH 16V 22U 1		C3616	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	
	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U 3		C3617	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1
	ECUX1H820JCV	C. CAPACITOR CH 50V 82P 1		C3618	ECEV1EN2200	E. CAPACITOR CH 25V 22U	
	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U 6	,	C3619-23	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3
	ECUX1H151JCV	C. CAPACITOR CH 50V 150P 1		D2001	MA 1 40WV	DIODE	
	ECUX1E104ZFV ECUX1H221JCV	C. CAPACITOR CH 25V 0.1U 22		D3001 D3002	MA142WK MA335-R	DIODE	
		C. CAPACITOR CH 50V 220P 1 C. CAPACITOR CH 50V 18P 1		D3002	MA715	DIODE	1
1 min - 1 min - 1 min - 1	ECUX1H180JCV	C. CAPACITOR CH 50V 68P 1	1	D3202, 03	MA152K	DIODE	2
	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U 4		D3204	MA335-R	DIODE	1
C3507	ECEV1HN010Q	E. CAPACITOR CH 50V 1U 1		D3501	MA142WK	DIODE	1
gar an inter-trader to territories and	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U 3		D3502	MA142K	DIODE	1
C3511	ECEVICV4700	E. CAPACITOR CH 16V 47U 1		D3503,04	MA152K	DIODE	2
C3512	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U 1	and a second sec	D3505,06	MA142K	DIODE	2
	ECEV1CV4700	E. CAPACITOR CH 16V 47U 4		D3507	MA335-R	DIODE	1 .
C3517	ECEVOJV1010	E. CAPACITOR CH6. 3V 100U 1	engengengen in managang managan minimi in in ini	D3508	MA152K	D100E	1
C3518	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U 1		I			
C3519	ECEV1CV470Q	E. CAPACITOR CH 16V 47U 1		FL3001-09	VLF0941C223	FILTER	9
C3520	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U 1		FL3011	VLQ0415	COIL	1
C3521,22	ECEV1CV2200	E. CAPACITOR CH 16V 22U 2		FL3301-04	VLF0941C223	FILTER	4
C3523,24	ECEV1CV4700	E. CAPACITOR CH 16V 47U 2	10 900 10 10 10 10 10 10 10 10 10 10 10 10 1	FL3501-06	VLF0941C223	FILTER	6
C3525-28	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U 4					
C3529	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 1		IC3001	NJM78L09UA	IC	1
	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U 2		1C3002	XC62AP5002P	lic .	1
C3532	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 1	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1C3003	NJM79L09UA	IC	1
C3533	ECUX1H330JCV	C. CAPACITOR CH 50V 33P 1		1C3004	XC62DN5002P	IC	1
	ECUX1H103KBV	C, CAPACITOR CH 50V 0.01U 1	***************************************	1C3005	TC7S14F	1C	1
C3535	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U 1		103006,07	DM74LS221SJ	IC IC	2
C3536	ECUX1H181JCV	C. CAPACITOR CH 50V 180P 1		1C3008	TVHC74FT	lic	1
C3537, 38 C3539	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U 2 E. CAPACITOR CH 50V 1U 1		IC3009 IC3010	NJM082BV TC4W53FU	IC	1
C3540	ECEV1HN0100 ECUX1H150JCV	E. CAPACITOR CH 50V 1U 1 C. CAPACITOR CH 50V 15P 1		103011	TC7S00FU	ic	1
****	ECUX1H150JCV	C, CAPACITOR CH 25V 0.1U 2		IC3011	TVHC244FT	1C	1
C3543	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 1		IC3013	TC7S04FU	lic l	1
C3544	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P 1		1C3014	TC7SH00FU	IC	1
C3545	ECUX1H220JCV	C. CAPACITOR CH 50V 22P 1		IC3101-03		ic	3
	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U 3		IC3104	T160G70-1601	lic	1
C3549	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 1	**************************************	IC3105	TVHC04FT	IC	1
C3551	ECUX1H470JCV	C. CAPACITOR CH 50V 47P 1		IC3106	TVHC244FT	(C	1
C3552, 53	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U 2		IC3107,08	UPD42280G3	1C	2
C3554,55	ECUX1H150JCV	C. CAPACITOR CH 50V 15P 2			TVHC244FT	IC	2
	***************************************	C. CAPACITOR CH 25V 0.1U 3		IC3201	TVHC257FT	lic .	1
Make and a second commence of		E. CAPACITOR CH 16V 10U 1		1C3202	TVHC244FT	IC	1
C3560		E. CAPACITOR CH 50V 1U 1	A STANCE OF THE PROPERTY OF TH	1C3203	TC4W53FU	10	1
C3561		C. CAPACITOR CH 50V 560P 1		1C3204	UPD65841G025	IC	1
C3562 C3563-66	ECUX1H102JCV	C. CAPACITOR CH SOV 1000P 1		1C3205 1C3206	TVHT244FT TVHC244FT	IC IC	il
C3563-66 C3567	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U 4 C. CAPACITOR CH 50V 15P 1		C3206 C3207	TC7SH32FU	IC	i
C3568	ECUX1H150JCV ECUX1E104ZFV	C, CAPACITOR CH 25V 0.1U 1		1C3208	MC74HC125AF	lic	il
C3569	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 1	proprio desprendente proportione de la contenta del contenta del contenta de la contenta del contenta de la contenta del contenta de la contenta del contenta de la contenta del contenta de la contenta de la contenta del contenta del contenta del contenta de la contenta del contenta del cont	103209, 10		ic	2
C3570		C. CAPACITOR CH 25V 0.1U 1	ELEMBRICA MILITARY CONTRACTOR OF THE PROPERTY	103211,12		1C	2
		C. CAPACITOR CH 25V 0.1U 2	Ambarram and another the transfer	IC3213	TC7SH08FU	IC	1
C3575		E. CAPACITOR CH 50V 1U 1		IC3214	TC7SH00FU	IC	1
The second of the second of the	the contract of the second	C. CAPACITOR CH 25V 0.1U 2		1	TVHC244FT	ic	2
C3578		E. CAPACITOR CH 16V 10U 1		IC3217	TVHC163FT	IC	1
C3579-82		C. CAPACITOR CH 25V 0.1U 4		IC3301	TVHC164FT	IC	1
C3583	ECUX1H820JCV	C. CAPACITOR CH 50V 82P 1	a language and complete a company and and associated in the State	IC3302-04	TVHC244FT	[IC	3
C3584	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U 1		1C3305	TC7S32F	IC	1
C3585		E. CAPACITOR CH 16V 10U 1		1C3306	TVHC244FT	IC	
C3586	ECUX1H101JCV	C. CAPACITOR CH 50V 100P 1		1C3307	T160G70-1601	IC	
C3587	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 1		1C3308	XC62AP5002P	IC	1
	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U 5		IC3309	XC62DN5002P	IC	4
C3593	ECUX1H680JCV	C, CAPACITOR CH 50V 68P 1			UPD42280G3	IC	4
a contract the contract of	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U 3			TVHC244FT	IC	2
C3597	ECUX1H680JCV	C. CAPACITOR CH 50V 68P 1		1C3401	TVHC244FT	IC	
C3599		E. CAPACITOR CH 25V 3.3U 1		1C3402	UPD65840G024	IC IC	
		C. CAPACITOR CH 25V 0.1U 6		IC3403	TC7SH04FU	IC .	1
C3606	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P 1		1C3404	TVHC74FT	IC IC	1
C3607	ECUM1H270JCN	C. CAPACITOR CH 50V 27P 1		IC3405	TVHC244FT	IC	*
the second second second			I	1	1	1	

Ref. No.	Part No.	Part Name & Description	Pes	Remarks Ref. No.	. <u>P</u>	Part No.	Part Name	& Desc	ription	Pc	s Remarks
1C3406	ADV7122KST50	IC	ī	R3032	ERJ	J3RBD152	MLRESISTOR C	H 1/16W	1.5K		
IC3407	AD589JR	IC	1	R3034	ER.	J3GEYJ101	M. RESISTOR C	H 1/16W	100	1	
IC3501	NJM78L09UA	1C	1	R3035	ER.	J3GEYJ223	M.RESISTOR C	H 1/16W	1 22K	1	
1C3502	XC62AP5002P	IC	1	R3036, 37	ER.	J3GEYJ103	M. RESISTOR C	H 1/16W	1 10K	2	2
IC3503	XC62DN5002P	IC	1	R3038-47	ERJ	J3GEYJ101	M. RESISTOR C	H 1/16W	1 100	10	
IC3504	T74VHCT244F	IC	1	R3101-26	ER.	J3GEYJ103	MI. RESISTOR C	H 1/16W	1 10K	2€	3
IC3505	AN91A12S	IC	1	R312729	ER.	J3GEYJ101	M. RESISTOR C	H 1/16W	100	1 3	3
IC3506	MM74HC221AM	IC	1	R3131	ER.	J3GEY0R00	M. RESISTOR C	H 1/16W	1 0	1	
IC3507	TC74VHC221AF	IC	- 1	R3133	ER.	J3GEY0R00	M.RESISTOR C	H 1/16W	0	1	
1C3508	TVHC04FT	ic	1	R3135	ER.	J3GEYJ103	M.RESISTOR C	H 1/16W	1 10K	1	
IC3509	NE521D	IC	1	R3143	ER.	J3GEY0R00	M.RESISTOR C	H 1/16W	0 1] 1	
IC3510	TC7SH00FU	IC	1	R3145	ER.	J3GEYOROO	M. RESISTOR C	H 1/16W	1 0	1	
IC3511	NJM082BV	IC	1	R3146	ER.	J3GEYJ103	M. RESISTOR C	H 1/16W	10K	1	
IC3512	MC74HC125AF	1C	1	R3148	ER.	J3GEYJ101	M. RESISTOR C	H 1/16W	100	1	MANAGEMENT OF THE PROPERTY OF
IC3513	NJM082BV	IC	1	R3149-60	ER.	J3GEYJ103	M. RESISTOR C	H 1/16W	1 10K	12	
IC3514	TC74VHC221AF	1C	1	R3161,62	ERJ	J3GEYJ101	M. RESISTOR C	H 1/16W	100	1 2	
IC3515	NJM084V	lic	1	R3163-66	ER.	J3GEYJ103	M. RESISTOR C	H 1/16W	1 10K	1	region commence constitution of the second
IC3516	TC7SH00FU	IC	1	R3167-69		we construct the	M. RESISTOR C			1 3	3
IC3517	NJM084V	IC	1	R3201-12			M. RESISTOR C			12)
IC3518	TC7SH00FU	IC	1	R3213-15	A	water of the contract of the contract	M. RESISTOR C	market contract		1 3	
IC3519	TVHC08FT	IC	i	R3218, 19			M. RESISTOR C			1 3)
IC3519	TVHC04FT	IC	+ ;	R3220-23			M. RESISTOR C			1 2	
IC3520	TVHC244FT	lic		R3224	1		M. RESISTOR C			1.	
						~,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************		***************************************	+ ;	
IC3522	MM74HC221AM	IC .		R3225	- 1	and a contract of	M. RESISTOR C	account and the contract of	111 1911 1	1	J
IC3523	NE521D	lic	!	R3227			M. RESISTOR C			1	Tanaka a ta
IC3524	MC14053BF	IC	!	R3228, 29			M. RESISTOR C			1 3	
103525	NJM082BV	IC		R3230	10 190		M. RESISTOR C			1 -	
IC3526	TC7SH00FU	IC	1	R3232	*****	F1484114011F1F1F1711111141141444111111	M. RESISTOR C			1.	
IC3527	UPD65650J203	IC	1	R3233	1		M. RESISTOR C				
IC3528	NJM082BV	IC		R3234			M. RESISTOR C			1	
IC3529	TC4S66F	IC	1	R3235, 36			M. RESISTOR C			2	2
				R3239		A CHARLES OF THE REST OF THE REST	M. RESISTOR C	THE PERSON NAMED IN COLUMN	record contractors of	1	
L3001	VL00163J3R3	COIL 3.3UH	1	R3240	ERJ	J3RBD223	M. RESISTOR C	H 1/16W	22K	1	
L3101-16	VLP0155	COIL	16	R3241	ERJ	J3GEYJ105	M. RESISTOR C	H 1/16W	f 3M	1	
L3201	VL00163J3R9	COIL 3.9UH	1	R3242	ERJ	J3GEYG102	M. RESISTOR C	H 1/16W	1 1K	1	
L3202	VL00319K470	COIL 47UH	1	R3245	ER.	J3GEYJ101	M. RESISTOR C	H 1/16W	100	1	
L3501	VL00163J221	COIL 220UH	1	R3246	ER.	J3GEYG102	M. RESISTOR C	H 1/16W	1 1K	1	
L3502	VL00163J680	COIL 68UH	1	R3248	ER.	J3GEYJ103	M. RESISTOR C	H 1/16W	1 10K	1	
L3503	VL00163J221	COIL 220UH	1	R3249, 50	ER.	J3GEYJ101	M. RESISTOR C	H 1/16W	100	2	
				R3251	ER.	J3GEYJ103	M. RESISTOR C	H 1/16W	10K	ji	
P3902	VJS3826A040	CONNECTOR (FEMALE)	1	R3252	ERJ	J3GEYJ470	M. RESISTOR C	H 1/16W	47	• 1	
P3981	VJP40640160	CONNECTOR (MALE)	1	R3253-55	ER.	J3GEYJ101	M. RESISTOR C	H 1/16W	100	3	}
				R3257	ERJ	J3GEYJ101	M. RESISTOR C	H 1/16W	100	1	
03001	2SC3938-R	TRANSISTOR	1	R3258	ERJ	J3GEYJ223	M. RESISTOR C	H 1/16W	22K	1	
03002,03	2SA1532-B	TRANSISTOR	2	R3259	ERJ	J3GEYJ470	M. RESISTOR C	H 1/16W	47	Ĩi	
03004	2SC3938-R	TRANSISTOR	ī	R3260	ERJ	J3GEYJ331	M. RESISTOR C	H 1/16W	330	1	
03201	2SC2295-C	TRANSISTOR	1	R3261	d day (1.55.555.55	J3GEYJ272	M. RESISTOR C			1	
03401	2SK374-R	TRANSISTOR	1	R3262	4 .		M. RESISTOR C			1	
03402-04	2SB1218A-R	TRANSISTOR	3	R3263	ERJ		M. RESISTOR C		************	17	
03501	2SB709A-R	TRANSISTOR	1	R3264	- 1		M. RESISTOR C			l i	
03502,03	2SK608-R	TRANSISTOR	2	R3265-67			M. RESISTOR C			1 3	
03504	XN4601	TRANSISTOR-RESISTOR	1	R3268, 69		**********************	M. RESISTOR C		*******************	1 2	
				R3270	- [4.5 A	M. RESISTOR C	61-6 - W 10-4-986		1 1	
R3001-03	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	R3271			M. RESISTOR C			+-;	
R3004	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	R3272, 73	1		M. RESISTOR C			1,	
R3005	ERJ3GEYG682	* *	- ;	R3272, 73			M. RESISTOR C		face day a 15-fackbooks of	1 :	
R3006		M. RESISTOR CH 1/16W 6.8K		R3274 R3275-84						1,	
	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K					M. RESISTOR C			10	1
R3007	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K		R3285			M. RESISTOR C	*******		1 !	
R3008	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	!	R3286			M. RESISTOR C				
R3009	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K		R3287			M. RESISTOR C			-!	# 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
R3010	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100		R3301			M. RESISTOR C			!	
R3011	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K		R3303, 04	4		M. RESISTOR C			1 2	
R3012, 13	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2	R3306, 07			M. RESISTOR C	***************************************		2	
R3014	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	!	R3309	1 4 4	- 4	M. RESISTOR C				
R3015	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	R3311-33			M.RESISTOR C			23	
R3016, 17	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	2	R3334-37			M. RESISTOR C			4	a commenter management and the contract of the
R3018	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	R3341-43	- 1		M. RESISTOR C			3	
R3020	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	R3344, 45	ERJ	J3GEY0R00	MLRESISTOR C	1/16W	0	2	and the state of t
R3021	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	1	R3346	ERJ	J3GEYJ101	M.RESISTOR C	1/16W	100	1	
R3022	ERJ3RBD273	M. RESISTOR CH 1/16W 27K	1	R3347	ERJ	J3GEYJ103	M. RESISTOR C	1/16W	10K	1	
R3023	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	R3348	ERJ		M. RESISTOR C			1	
R3024	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	R3350			M. RESISTOR C		THE COLUMN TWO IS NOT	1	
	ERJ3RBD392	M. RESISTOR CH 1/16W 3.9K	2	R3401-05		1	M. RESISTOR C			5	
R3028, 29			1	R3406			M. RESISTOR C			1	
R3028, 29 R3030	ERJ3RBD103	M. NCJ JION ON 1/ ION ION			,			/ / 444	,		
	ERJ3RBD103 ERJ3RBD104	M. RESISTOR CH 1/16W 10K	1	R3407	ER.I	J3GEYOROO	M. RESISTOR C	1 1/16W	0	١,	

Ref. No.	Part No.	Part Name & Descrip	tionPc:	Remarks R	Ref.No.	Part No.	Part Name & Desc	ription	l'c:	s Remarks
R3409	ERJ3GEYJ103	M. RESISTOR CH 1/16W 1	OK 1	R3	3569	ERJ3RBD333	M. RESISTOR CH 1/16W	33K] 1	
R3410	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0 1	R3	3570	ERJ3RBD393	M. RESISTOR CH 1/16W	39K	1	
R3413	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0 1	l R	3571	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1	
R3415	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0 1	R	3572	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1	
R3417	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0 1	B: B:	3573,74	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1 2	,
R3420, 21	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0 2	the contract of the contract o	3575	ERJ3RBD563	M. RESISTOR CH 1/16W	56K	1 1	
R3423, 24	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0 2		3576	ERJ3RBD472	M. RESISTOR CH 1/16W			
R3426	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0 1		3577	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1	
									+ :	
R3428, 29	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0 2	I II	3578	ERJ3RBD392	M. RESISTOR CH 1/16W			
R3431	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0 1		3579,80	ERJ3RBD103	M. RESISTOR CH 1/16W	10K		
R3434	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0 1		3581	ERJ3RBD152	M. RESISTOR CH 1/16W			
R3435-40	ERJ3GEYJ101	the same of the sa	00 6	+ · · · · · · · · · · · · · · · · · · ·	3582	ERJ3RBD562	M. RESISTOR CH 1/16W	5.6K	1	
R3441	ERJ3RBD332	M. RESISTOR CH 1/16W 3.	3K 1	R	3583	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1	
R3442	ERJ3RBD471	M. RESISTOR CH 1/16W 4	70	R	3584	ERJ3GEYJ122	M. RESISTOR CH 1/16W	1.2K	1	
R3444,45	ERJ3GEYJ104	M. RESISTOR CH 1/16W 10	OK 2	R:	3589	ERJ3RBD473	M. RESISTOR CH 1/16W	47K	1	
R3446-51	ERJ3RBD201	M. RESISTOR CH 1/16W 2	00 6	R:	3591	ERJ3RBD104	M. RESISTOR CH 1/16W	100K	1	
R3452, 53	ERJ3GEYJ101	M. RESISTOR CH 1/16W	00 2	R	3592	ERJ3GEYJ105	M. RESISTOR CH 1/16W	1M	1	
R3454, 55	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.	5K 2	R:	3593-97	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1 5	5
R3456, 57	ERJ3RED750		75 2	R	3598	ERJ3GEYJ104	M. RESISTOR CH 1/16W	100K	1	
R3458	ERJ3GEYJ101	A CONTRACTOR OF THE PROPERTY O	00	The second secon	3599	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0		
R3459	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.			3601,02	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0		
R3460	ERJ3RED750	M. RESISTOR CH 1/16W	75	the second of th	3603	ERJ3GEYJ222	M. RESISTOR CH 1/16W		1 ;	
a management of the		A SECTION OF SECTION AND ADDRESS OF SECTION OF SECTION AND ADDRESS OF SECTION	4	4 m s − 1			the second second second			
R3461	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0 /		3604	ERJ3GEYJ684	M. RESISTOR CH 1/16W		1	
R3462, 63	ERJ3GEYJ101	The same of the sa	00 2	1 1 1 1 1	3605	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0		
R3464	ERJ3GEY0R00	M.RESISTOR CH 1/16W	0 1	a comment of the second contract of the secon	3606	ERJ3RBD123	M. RESISTOR CH 1/16W	12K	1 1	
R3465	ERDS2TJ101	#	00 1		3608	ERJ3RBD103	M. RESISTOR CH 1/16W	10K	1 1	
R3501-03	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.			3609	ERJ3RBD822	M. RESISTOR CH 1/16W		1	!.]
R3505	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.	2K 1	R:	3610	ERJ3GEYG152	M. RESISTOR CH 1/16W	1.5K	1	
R3508	ERJ3GEYJ103	M.RESISTOR CH 1/16W	OK 1	l R:	3612, 13	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1 2	2
R3509	ERJ3GEYJ221	M. RESISTOR CH 1/16W 2	20 1	R:	3615	ERJ3RBD123	M. RESISTOR CH 1/16W	12K	1	
R3511-14	ERJ3GEYJ103	M. RESISTOR CH 1/16W	OK 4	R	3616,17	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1 2	2
R3515, 16	ERJ3GEYJ101	M. RESISTOR CH 1/16W	00 2	R	3620	ERJ3RBD123	M. RESISTOR CH 1/16W	12K	Ti	1
R3517	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.	2K 1	R:	3622	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	
R3518	ERJ3RBD473		7K		3623,24	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1 3)
R3519, 20			OK 2	de 1990 e 1990 e 1991 e 199	3625	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K		
R3521	ERJ3GEYJ224		OK	and the transfer of the contract of the contra	3626-28	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1	
R3522	ERJ3RBD223		2K1	THE CONTRACT OF THE PROPERTY O	3630-32	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1	
		41 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1M 1		3634			15K		
R3523	ERJ3GEYJ105				***************************************	ERJ3RBD153	M. RESISTOR CH 1/16W		+-;	
R3524	ERJ3GEYG822	The second contract to	2K	the contract of the contract o	3636	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100		
R3525	ERJ3GEYJ103		0K 1	The last case is a first contract to the second sec	3637	ERJ3RBD823	M. RESISTOR CH 1/16W	82K	1.	
R3526	ERJ3GEYJ684	and a contract of the contract of the second contract of the c	lok 1		3638	ERJ3GEYJ105	M. RESISTOR CH 1/16W	1M		
R3527	ERJ3GEYJ103	the state of the second of the	OK 1		3639	ERJ3GEY0R00	M. RESISTOR CH 1/16W	9	1	
R3528	ERJ3GEYJ684	M. RESISTOR CH 1/16W 68	IOK 1		3641	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1	
R3529	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.	2K 1	R:	3642	ERJ3RBD682	M. RESISTOR CH 1/16W	6.8K	1	
R3530	ERJ3GEYJ103	M. RESISTOR CH 1/16W	OK 1	R:	3644,45	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	2	2
R3531	ERJ3RBD103	M.RESISTOR CH 1/16W	OK 1	R:	3646	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1	
R3532	ERJ3GEYJ103	M. RESISTOR CH 1/16W	OK I	R:	3647,48	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	2	2
R3533	ERJ3RBD393	M. RESISTOR CH 1/16W 3	9K 1	R	3649	ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	1	
R3534	ERJ3GEYJ184	M. RESISTOR CH 1/16W 18	OK 1	R	3650	ERJ3RBD822	M. RESISTOR CH 1/16W	8.2K	1	to be a second to the second s
R3535	ERJ3RBD103	M. RESISTOR CH 1/16W	4-4		3651	ERJ3RBD153	M. RESISTOR CH 1/16W	15K	1	
R3536	ERJ3RBD222	M. RESISTOR CH 1/16W 2.			3653	ERJ3GEY0R00	M. RESISTOR CH 1/16W	. 0	1	
R3537	ERJ3RBD103		OK 1	and the contract of the contra	3654	ERJ3GEYJ821	M. RESISTOR CH 1/16W	820	1	
R3538	ERJ3GEYJ103	A CONTRACTOR OF THE CONTRACTOR	OK 1	the second of th	3655	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1	
R3539	ERJ3RBD103		OK 1	***************************************		ERJ3GEYJ473	M. RESISTOR CH 1/16W	47K	1)
***	April 10 and 11	and the second s			3660	ERJ3RBD152	M. RESISTOR CH 1/16W	1.19	;	
R3540	ERJ3GEYJ101	., .,	00 1				a manager and an analysis of the state of th	continue and other contra	+ :	
R3541	ERJ3RBD103	The second commence of the second control of	0K 1			ERJ3GEYG332	M. RESISTOR CH 1/16W		2	
R3542	ERJ3GEYG471	the commence of the same and an arrangement to the same of	70 1	the contract of the contract o	3663	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	!	
R3543	ERJ3GEYJ103		OK 1		3665	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1,	10 the street of
R3544	ERJ3GEYG102		1K 1	1	3666	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1	
R3545	ERJ3RBD272	M. RESISTOR CH 1/16W 2.			3669	ERJ3GEYJ273	M. RESISTOR CH. 1/16W	27K	1	and the second second
R3546	ERJ3GEYJ103		OK 1	R	3670	ERJ3GEYJ101	M.RESISTOR CH 1/16W	100	1	I
R3547	ERJ3RBD183	M. RESISTOR CH 1/16W 1	8K 1	R3	3671	ERJ3GEYG472	M. RESISTOR CH 1/16W	4.7K	1	
R3548	ERJ3RBD332	M. RESISTOR CH 1/16W 3.	3K 1	l R3	3672	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1	
R3549	ERJ3GEYJ101	M. RESISTOR CH 1/16W 1	00 1	R3	3673	ERJ3GEYJ222	M. RESISTOR CH 1/16W	2. 2K	1	
R3551	ERJ3GEYJ683	M. RESISTOR CH 1/16W 6	8K 1	R3	3674	ERJ3R80682	M: RESISTOR CH 1/16W	6.8K	1	
R3554	ERJ3RBD822	M. RESISTOR CH 1/16W 8.				ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	2	
R3557	ERJ3RBD223		2K 1	terminan terminan terminan terminan terminan terminan terminan dari dan terminan terminan dari dari dan terminan terminan terminan dari dari dari dari dari dari dari dari		ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1 2	er con communicações de la composição de
R3560	ERJ3RBD562	M. RESISTOR CH 1/16W 5.		t		ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	5	
R3561		and the contraction of the contr	.,	H R3		_ MJOL I ONOU			'	The state of the s
	ERJ3GEYJ101	I see a	00 1		C3003	EVECCII	TEST DOINT		١.	
R3563	ERJ3RB0223	and the contraction of the contr	2K 1			EYF6CU	TEST POINT		1	
R3564	ERJ3GEYJ105		IM 1	to the state of the second control of the state of the second control of the second cont		EYF6CU	TEST POINT		!	
R3565	ERJ3GEYG102		1K 1	1 11	1	EYF6CU	TEST POINT		1	
R3566	ERJ3RBD103		OK 1	TG	G3501,02	EYF6CU	TEST POINT		2	
R3567	ERJ3GEYG102	The second secon	1K 1							
R3568	ERJ3GEYG471	M. RESISTOR CH 1/16W 4	70 1] те	P3001,02	EYF6CU	TEST POINT		2	

	Ref. No.	Part No.	Part Name & Description	Pes	Remarks	Ref. No.	Part No.	Part Name & Descr	iption	٦,	. 5	Remarks
Г		EYF6CU	TEST POINT	1		C3315-17	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	+-	3	
	TP3201-03	EYF6ÇU	TEST POINT	3		C3319-25	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. 1U	1	7	The second secon
	TP3501-07		TEST POINT	7	1	C3402, 03	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. 1U		2	
1			to the state of th		14.1811/1 (n. 1.1	C3405-09	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. 1U	1	5	
ľ	VC3201	ECVIZW50X53T	TRIMMER	1	j	C3411	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. IU		1	
						C3412	VCK0151	C. CAPACITOR	0.10	ŀ		
-	403301	ECV1ZW20X53T	TRIMMER	'		· · · · · · · · · · · · · · · · · · ·			0.111	١.	,	
1	1/02001	FINET IOLOGBOO	N PEGLOTOR	١,		C3413-21	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	١.	٦	
		EVM7JGA00B23	V. RESISTOR 2K	- !		C3501-13	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	ļ.!	3	B. L
1	1	EVM7JGA00B14	V. RESISTOR 10K]		C3601,02	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10		2	
		EVM7JGA00B53	V. RESISTOR 5K	1		C3603, 04	ECUX1H681JV	C. CAPACITOR CH 50V	680P	ļ.,	2	
	VR3507	EVM7JGA00B54	V. RESISTOR 50K	. 1		C360507	ECUX1H103KBV	C. CAPACITOR CH 50V	0.010	١.,	3	
Т	VR3508	EVM7JGA00B23	V.RESISTOR 2K	1		C3608	ECEV1HVR330	E. CAPACITOR CH 50V	0.33U		1	
						C3609	ECUX1H103KBV	C. CAPACITOR CH 50V	0.010		1	
	X3201	VSX0789	CRYSTAL OSCILLATOR	1		C3610	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.1U	1	1	300 Maria (1900 Ma
1	X3501,02	VSX0567A	CRYSTAL OSCILLATOR	2		C3611	ECUX1H150JCV	C. CAPACITOR CH 50V	15P	1	1	F 198 2 - 198
T	X3503	VSX0338	CRYSTAL OSCILLATOR	1		C3612	ECUX1H120JCV	C. CAPACITOR CH 50V	12P		1	
1	X3504	VSX0081	CRYSTAL OSCILLATOR	ارا		C3613	ECEVOJV470Q	E. CAPACITOR CHG. 3V	47U	1 "	1	
1			3,110,112	'		C3616	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	1	1	
-			MISCELLANEOUS			C3618, 19	VCK0152	C. CAPACITOR		-	2	
1			MISCELLAREOUS		* * * * * * * * * * * * * * * * * * *			From the second second second	0.111		-	A STATE OF THE STA
-		VVIII. IC	CODEW			C3706, 07	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	-	4	
1		XYN2+J6	SCREW	2		C3719	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	-	1	
						C3720	VCK0151	C. CAPACITOR		١.	1	
			ALITHIAN THE FATA AND AND AND AND AND AND AND AND AND AN	L	e migrar en communicamentaliste, de ambientaliste ancientaliste de la companie de la companie de la companie d	C3721	VCK0152	C. CAPACITOR		ļ	1	The first contract to the second section of the sect
1						C3722,23	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	1	2	
1	.,,	<u> </u>				C3725, 26	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	1	2	
- [l				C3801-05	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	-	5	
- [■ E5	VEP03F00A	DIGITAL CORE P.C.BOARD	1	(RTL)	C3901	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	-	1	
-1	"					C3902	VCK0151	C. CAPACITOR			ĩ	A TOTAL MATERIAL SECTION CO.
		TOTAL DESIGNATION OF THE PROPERTY OF THE PROPE				C3903-10	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	T	8	***************************************
ı	C3002	ECEVOGV4700	E. CAPACITOR CH 4V 47U	1		C3951-54	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	1	4	
ŀ		ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2						1-		
- [C3005	VCK0151	C. CAPACITOR	1		D3601-03	MA715	D100E		-	3	
	C3006	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U			D3604-06	M1MA152K	DIODE			2	
		ECUX1E104ZFV	***************************************	,	100100000000000000000000000000000000000	03004-00	MIMAIJZK	01000		 	4-	**************************************
				5			VII 51110	CU TED			- I	A TOTAL CONTRACTOR CON
-		VCK0152	C. CAPACITOR	3		FL1	VLF1116	FILTER		ļ	4-	
ŀ		ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	!		FL2	VLF1118	FILTER			. 1	410.00.01.00.01.00.00.00.00.00.00.00.00.0
-1.	C3101	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		FL3	VLF1117	FILTER		١.	Ц.,	
	C3102	VCK0151	C. CAPACITOR	1						ļ		
	C3103	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U			103001	MN67372A2	IC			1	
1	C3104, 05	VCK0151	C. CAPACITOR	2		1C3002	MN4706F	lic		L	1]	
	C3106,07	VCK0152	C. CAPACITOR	2		IC3003	XC62AP2302P	IC			1	
1	C3108-12	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5		1C3007	TVHC244FT	IC			1	
	C3113	VCK0151	C. CAPACITOR	1		IC3008	TC7SH32FU	IC			1	
[C3114	ECEVOJV3300	E. CAPACITOR CH6. 3V 33U	1		IC3101	M65401FP	IC			1	
	C3115	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	1	IC3102	MN673711	ıc		ı	1	
Ì	C3116	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	1		IC3103-06	TVHC245FT	IC		1 7	4	
1"	C3117	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	ī		IC3107	M52660FP	ic		1	1	
Т	C3118	ECUX1H180JCV	C. CAPACITOR CH 50V 18P		1	103108	TVHC244FT	ic			il	
		ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	i	Professional Company of the Company	IC3110	TC4W53FU	IC		 	-	
		ECEVOJV3300	E. CAPACITOR CH6. 3V 33U		i	IC3111	TVHC244FT	ic			.]	
	100000 0 2 4			,			***************************************	and the second s		-	-	
1		ECUX1E104ZFV	C. CAPACITOR CH 25V 0. 1U		the three contrates and the contrates of	1C3112	TVHC257FT	lic			4	West of the second seco
	C3123	ECEVICV1000	E. CAPACITOR CH 16V 10U			1C3202	XC62AP3202P	IC			4	and the second of the second o
-		ECEV1HV2R2Q	E. CAPACITOR CH 50V 2.2U	!	CONTRACTOR OF THE CONTRACTOR O	1C3203	TC7S66F	IC		ļ	1	ann eine mannen eine eine met der met erste man beträcken geber gegen zu enge bit einflemfilte be
1		ECUX1H180JCV	C. CAPACITOR CH 50V 18P			1C3204	MB81V4260S7	IC			1	
	C3126	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	1		1C3205	L7A1433	IC		[1	ace in administration description of the contract of the contr
1		ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	5		1C3206	TVHC74FT	IC			1	ata cara arabat ca ana ara dinini meneng panara
		ECEVOJV3300	E. CAPACITOR CH6. 3V 33U	1		IC3207, 08	TC7SH08FU	IC			2	
	C3133	ECEV1CV1000	E. CAPACITOR CH 16V 10U	_1		IC3301	XC62DN5002P	IC			1	
	C3134	ECEV1HV2R2Q	E. CAPACITOR CH 50V 2.2U	1	* ** * * * * * * * * * * * * * * * * *	IC3302	MC10H125M	IC			1	ATTENDED TO A STATE OF THE PARTY OF THE PART
	C3201-03	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	1	1C3304	L7A1434	ıc			1	
۱'	C3205	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		103305,06	TVHC74FT	IC		1	2	the second secon
	C3206	VCK0151	C. CAPACITOR	1		IC3308	TVHC153FT	ic		1	1	The first of the second of the
	C3207		C. CAPACITOR CH 25V 0.1U	1	ı	IC3310	MC10H124M	ic			1	
	C3209	VCK0152	C. CAPACITOR	1	······································	1C3311	TVHC244FT	ic		-	11	The street of th
1			C. CAPACITOR CH 25V 0.1U			1	TC7SH04FU	ic		١.	2	
ŀ	C3211		E. CAPACITOR CH 16V 10U			IC3317	TC7SH08FU	ic		'	1	
1		and the state of t						The second secon		-	1	
		ECUMIE104ZFN	C. CAPACITOR CH 25V 0.1U			1C3401	UPD65868D022	IC			1	
		****	E. CAPACITOR CH 16V 22U	<u> </u>		1C3403	TVHC245FT	IC		ļ	11	1
			E. CAPACITOR CH 16V 47U			IC3404	TVHC244FT	IC		ľ	4	
		ECUM1E104ZFN	C. CAPACITOR CH 25V 0.1U			IC3405	TC7SH32FU	IC			1	
		ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		IC3415	TVHC257FT	IC			1	
1	C3307	VCK0152	C. CAPACITOR	[1]	1	1C3416	TC7SH04FU	IC			1	
1	C3308	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC3417	TC7S66F	ıc			1	
		_	C. CAPACITOR CH 50V 33P	2		1C3419	TC7SH04FU	IC		1	1	
	C3309, 10	ECUX1H330JCV	0.0/11/101/011 011 001									
		ECUX1H330JCV ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3	l I	IC3420	TC7SH00FU	IC		1	1	
				3		IC3420	TC7SH00FU	IC		1	1	

	Part No.	Part Name & Description	cs Remarks	Ref.No.	Part No.	Part Name & Description	Pcs Remarks
IC3421,22		IC	2	R3301	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1
	SN74S1051NS	IC	2	R3302	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	
	TVHT541FT	10	1	R3304-08	ERJ6GEYG101	M. RESISTOR CH 1/10W 100	1 1
	HD151015	IC .		R3316	ERJ3GEYJ103 ERJ3GEYJ105	M. RESISTOR CH 1/16W 10K]
	TVHT541FT	IC	1	R3320	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	
	UPD71055GB	IC	1	R3321,22 R3323	ERJ3GEY0R00	M. RESISTOR CH 1/16W 10K	2
	TVHC244FT		1	11	ERJ3GEYJ560		
	TVHC08FT	IC IC	7	R3324, 25 R3326-29	ERJ6GEYG471	M. RESISTOR CH 1/16W 56 M. RESISTOR CH 1/10W 470	A .
IC3511 IC3512	TVHC138FT TC7SH04FU	1	1	R3332	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	4
	TC7SH04FU	IC	1	R3334, 35	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2
a decide the recorder to the con-	TC7S66F	lic	2	R3336	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1
	VS12891	1C		R3339	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	
	\$80727ANDQ	IC	1	R3340, 41	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2
	TC7SH08FU	lic		R3401,02	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2
IC3704,05		ic	2	R3403	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1
e e tamont and considerant a	TVHC244FT	lic	2	R3414, 15	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2
IC3718,19		ic	2	R3416, 17	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2
*******************************	UPD65843G026	lic	1	R3418	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	
ARREST CONTRACTOR OF THE	TVHC74FT	ic	1	R3419,20	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2
	TVHC74FT	ic	1	R3421	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1 1
	TVHC244FT	16	1	R3422	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1 1
1C3905,06	and the second contract of the second	ic	2	R3423-25	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3
1C3907	TC4W53FU	IC	1	R3505, 06	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2
	TC7SH08FU	ic	1	R3507, 08	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2
IC3951-54		10	4	R3509-16	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K	8
				R3517-19	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3
L3001	VLP0145	COIL	1 20 10 10 10 10 10 10 10 10 10 10 10 10 10	R3520	ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	11
L3101	VLP0145	COIL	1	R3521	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1 1
	VL00319K100	COIL 10UH	3	R3523-38	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	16
L3401	VLP0145	COIL	1	R3539-41	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3
L3601	VL00319K470	COIL 47UH	1	R3542	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1 1
	VL00464K6R8	COIL 6. BUH	2	R3601-03	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3
L3604	VLP0155	COIL	1	R3610, 11	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	2
L3701	VLP0145	COIL	ï	R3614	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1 1
L3702	VL00464K6R8	COIL 6. BUH	1	R3615, 16	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	2
L3703-18	VLP0155	COIL	16	R3617, 18	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2
L3901	VLP0145	COIL	1	R3620, 21	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2
	***************************************			R3623, 24	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2
P3981	VJP4064Q160	CONNECTOR (MALE)	1	R3625	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1
P3982	VJS3826A040	CONNECTOR (FEMALE)	1	R3626, 27	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2
				R3629	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1
03601	2SB709A-R	TRANSISTOR	1	R3630-32	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	3
	***************************************			R3633	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1
QR3601	UN2214	TRANSISTOR-RESISTOR	1	R3634	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1 1
				R3635	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1. 1
R3001	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	R3636	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1
R3024	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	R3637	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1
record more about the property of	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	R3638	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1
	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K		R3639	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1 1
***	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	9	R3640-42	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	3
****	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	R3643	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	
***************************************	ERJ3GEY0R00	Mr. RESISTOR CH 1/16W 0	2	R3644-46	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3
	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	R3648	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	
	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	R3649	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	
Ottober of the second contract of the second contract of	ERJ3GEYJ273	M. RESISTOR CH 1/16W 27K	9	R3651	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1
material and the same of the	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	11	R3652	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	
*****************	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	R3653	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	
commercial and a second	and the second second	M. RESISTOR CH 1/16W 390		R3656	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	
***************************************		M. RESISTOR CH 1/16W 680	1	R3657	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1W	1
		M. RESISTOR CH 1/16W 390	1	R3658-60	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1
We see a see a	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K		R3662	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K M. RESISTOR CH 1/16W 0	
		M. RESISTOR CH 1/16W 2.2K	1	R3672	ERJ3GEY0R00	THE PERSON NAMED ASSOCIATION OF THE PERSON O	2
		M. RESISTOR CH 1/16W 39K	1	R3674,75 R3677	ERJ3GEY0R00 ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1
Maria Contractor and Contractor		M. RESISTOR CH 1/16W 680 M. RESISTOR CH 1/16W 390	4	R3701-16	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 0	16
	ERJ3GEYJ391		1				17
	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0		R3722-38 R3739-54	ERJ3GEY0R00 ERJ3GEYG332		16
	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	11			M. RESISTOR CH 1/16W 3.3K	16
	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	R3755-70	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	10
	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K		R3772	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 47	
	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4	R3773 R3802	ERJ3GEYJ470 ERJ3GEYJ103	and a company of the	
9. 4	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	1	11	1		
R3203	ERJ3GEYJ223 ERJ3GEY0R00	M. RESISTOR CH 1/16W 22K M. RESISTOR CH 1/16W 0	1	R3805 R3806	ERJ3GEYG102 ERJ3GEYJ103	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 10K	1
B3207		M. RESISTOR CH 1/16W 0	1	11 12000			L 1
	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	R3812-17	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	l el

									l.	1
Ref.No.	Part No.	Part Name & DescriptionP	,ca	Remarks	Ref. No.	Part No.	Part Name & Desc		l'c	rs Remarks
		M. RESISTOR CH 1/16W 10K	6		C30233-36		C. CAPACITOR CH 25V	0.10		4
- 1		M. RESISTOR CH 1/16W 0	1	1	C30237	ECUX1H103KBV	C. CAPACITOR CH 50V			
		M. RESISTOR CH 1/16W 47		The second secon	C30238	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.1U 0.01U	+-	1
		M. RESISTOR CH 1/16W 47	3	•	C30239 C30240	ECEV1AV3300	C. CAPACITOR CH 50V E. CAPACITOR CH 10V	33U	1	
		M. RESISTOR CH 1/16W 0 M. RESISTOR CH 1/16W 47	- ;		C30240	ECEV1HV4R70	E. CAPACITOR CH 50V	4. 7U		1
		M. RESISTOR CH 1/16W 0	-1	a contract contract contract and contract contra	C30241	ECHU1C392JB	P. CAPACITOR 16V	3900P	-	1
1		M. RESISTOR CH 1/16W 10K	- ;	1	C30243	ECUX1H821JCV	C. CAPACITOR CH 50V	820P	١	1
	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3		Ç30244	ECUX1H103KBV	C. CAPACITOR CH 50V	0.010	†	1
	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	6	•	C30245	ECUX1H222KBV	C. CAPACITOR CH 50V	2200P		1
	ERJ3GEYJ103	M. RESISTOR CH 1/16W TOK	2		C30246	ECHU1H152JB	P. CAPACITOR 50V	1500P	1	1
	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		C30247	ECEVOJV3300	E. CAPACITOR CH6.3V	33U		1
R3965-67	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3	1	C30248	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. 1U		1
R3981,82	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2		C30249	ECST1CX106Z	T. CAPACITOR CH 16V	100	I	1
R3984-88	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	5		C30250	ECUM1C334KBM	C. CAPACITOR CH 16V	0.33U		1
					C30251	ECEVOJV3300	E. CAPACITOR CH6. 3V	33U		1
SW3101	VSS0367-04B	SWITCH	1		C30252	ECST1CX106Z	T. CAPACITOR CH 16V	100		1
SW3102	VSS0367-08B	SWITCH	1		C30253	ECHU1C683JB5		0.068U	ļ	1
			.		C30254	ECUX1H471JCV	C. CAPACITOR CH 50V	470P	١.	
	EYF6CU	TEST POINT	1		C30255	ECUX1H561JCV	C. CAPACITOR CH 50V	560P		1
TG3302	EYF6CU	TEST POINT	_1		C30256	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	ļ	
TDOOGG	EVECCII	TECT DOLLIT			C30257, 58		C. CAPACITOR CH 50V	0.010	-	4
TP3002-04		TEST POINT	3		C30259 C30260, 61	ECUX1H330JCV ECUX1H080DCV	C. CAPACITOR CH 50V	33P 8P	-	2
TP3103, 04		TEST POINT	2		C30260, 61	ECUX1H080DCV	C. CAPACITOR CH 50V	220P		1
	EYF6CU	TEST POINT	1	and the second of the second second second	C30262	ECUX1H2213CV ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	-	1
TP3304-07		TEST POINT	4	Mest Million 1 - 1 - 10 - 10 - 10 - 10 - 10 - 10 -	C30264	ECUX1H330JCV	C. CAPACITOR CH 25V	33P	1	1
TP3601-04		TEST POINT	4	* * * * * * * * * * * * * * * * * * * *	C30265	ECUX1H080DCV	C. CAPACITOR CH 50V	8P	1	1
TP3801, 02		TEST POINT	2		C30266	ECUX1H101JCV	C. CAPACITOR CH 50V	100P	1	1
	EYF6CU	TEST POINT	1		C30267	ECUX1H080DCV	C. CAPACITOR CH 50V	8P		1
an term of transection of	EYF6CU	TEST POINT	1		C30268	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	1	1
					C30269	ECUXTHIOTICV	C. CAPACITOR CH 50V	100P	ľ	1
VR3101-03	VRV0161B203	V. RESISTOR 20K	3		C30270	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. 1U		1
					C30301	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. 1U		1
X3301	VSX0645	CRYSTAL OSCILLATOR	1		C30303	ECUX1H390JCV	C. CAPACITOR CH 50V	39P	1	1
X3601	VSX0637	CRYSTAL OSCILLATOR	1		C30304	ECUX1H181JCV	C. CAPACITOR CH 50V	180P	1	1
			. [C30305, 06		C. CAPACITOR CH 25V	0.10		2
		MISCELLANEOUS			C30307	ECEVICV470Q	E. CAPACITOR CH 16V	47U	ļ	1
					2 21 40	ECST1CX106Z	T. CAPACITOR CH 16V	100		2
	XYN2+J6	SCREW	2		C30310, 11	ECUX1H103KBV	C. CAPACITOR CH 50V	named to a transfer of the	١	2
			[C30312	ECUX1H080DCV	C. CAPACITOR CH 50V	8P	١.	1
			-1		C30314 C30318	ECEVOJN4700 ECUX1E104ZFV	E. CAPACITOR CH6. 3V C. CAPACITOR CH 25V	47U 0, 1U		1
					C30323	ECUX1H103KBV	C. CAPACITOR CH 25V	0.010	-	1
	İ				C30324	ECUX1H820JCV	C. CAPACITOR CH 50V	82P		1
■ E6	VEP03F01A	VIDEO I/O P.C. BOARD	٦	(RTL)	C30325	ECUX1H103KBV	C. CAPACITOR CH 50V	0.010	1	1
					C30327	ECUX 1H103KBV	C. CAPACITOR CH 50V	0. 01U	1	1
		1				ECUX1E104ZFV	C. CAPACITOR CH 25V	0. 1U	1	2
C30201	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C30339	ECUMIC105ZFN	C. CAPACITOR CH 16V	10	1	1
C30202	ECEVOJN4700	E. CAPACITOR CH6. 3V 47U	1	• • • • • • • • • • • • • • • • • • • •	C30340	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	1	1
	ECUX1E104ZFV	C. CAPACITOR CH 25V 0. IU	1	A second desirable second seco	C30341	ECEV1CV1000	E. CAPACITOR CH 16V	100		1
C30204	ECEV1AV3300	E. CAPACITOR CH 10V 33U	1		C30343	ECUX1H470JCV	C. CAPACITOR CH 50V	47P		1
alformated op. department on a series of		C. CAPACITOR CH 50V 0.01U	1		C30344	******************************	C. CAPACITOR CH 50V	5P	1	1
	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1			ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10		2
A second contract of the second		C. CAPACITOR CH 50V 0.01U	. 1	A BOARD OF THE PROPERTY OF THE	C30401	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10		
	ECEVIAV3300	E. CAPACITOR CH 10V 33U	- 1		C30403	ECEVICV1000	E. CAPACITOR CH 16V	100	1.	1
	ECST1CX106Z	T. CAPACITOR CH 16V 10U	1		1	ECEVIAV3300	E. CAPACITOR CH 10V	330		3
		C. CAPACITOR CH 25V 0.1U	- !			ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10		3 E
	ECEVIAV3300	E. CAPACITOR CH 10V 33U				ECUX1E104ZFV	C. CAPACITOR CH 25V	0, 10		2
	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	- :				C. CAPACITOR CH 50V	0.01U 8P	-	2
and a second second second	ECST1CX106Z ECUX1E104ZFV	C. CAPACITOR CH 16V 10U C. CAPACITOR CH 25V 0.1U	-		C30422, 23	ECUX IHU80DCV	C. CAPACITOR CH 50V		-	1
	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	- ;			1	C. CAPACITOR CH 50V	47P		2
	ECUX 1H103KBV	C. CAPACITOR CH 50V 0.01U	-	en in coupes a construit had squada da cultural de la construit de la construi		ECEVICV1000	E. CAPACITOR CH 16V	100	 	2
	ECUX1H103XBV	C. CAPACITOR CH 50V 1000P	1			1	C. CAPACITOR CH 25V	0.10		3
	•	C. CAPACITOR CH 50V 22P	1			ECST1CX106Z	T. CAPACITOR CH 16V	100	1	4
a time of the contract of the	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1		C30509		C. CAPACITOR CH 25V	0.10	1	1
	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C30511		C. CAPACITOR CH 25V	0. IU	1	1
	ECUX1H020CCV	C. CAPACITOR CH 50V 2P	1	gggger gg man gger e gg eng algalige hig berak da hal di Milital shak di Milita sakid ad di Santses St. 1889 1989 1989 1989 1989	C30512		C. CAPACITOR CH 50V	22P	1	1
	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3			ECST1CX106Z	T. CAPACITOR CH 16V	100		3
	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	- 1		C30522	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. IU		1
	ECUX1A105KBN	C. CAPACITOR CH 10V 1U	1		C30523	ECST1CX106Z	T. CAPACITOR CH 16V	100		1
	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	I	C30524-26		C. CAPACITOR CH 50V	100P		3
C30230, 31	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2	a	C30527-29	ECUX1H103KBV	C. CAPACITOR CH 50V	0.01U	1	3
	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1		C30530-32	ECENONA3300	E. CAPACITOR CH6. 3V	330		3
C30232	COOKITIOTOCY								1"	
C30232	CCOXIIIICIOCY									

	Part No.	Part Name &			_	Remarks	Ref. No.	Part No.	Part Name &		n Pc	s Remarks
	ECUX1E104ZFV ECUX1H103KBV	C. CAPACITOR C		0.10	3		C30905, 06		T. CAPACITOR CH		1	2
	ECUX1H103KBV	C. CAPACITOR C		1000P	3		C30907-09	ECUX1E104ZFV ECST1CX106Z	C. CAPACITOR CH			3
	ECUX1E104ZFV	C. CAPACITOR C		0. 1U	6	######################################		ECEVICV1000	T. CAPACITOR CH	*****************	+	3
	ECST1CX106Z	T. CAPACITOR C	4	100	1		11	ECUX1E104ZFV	C. CAPACITOR CH			2
C30552-54	ECUX1E104ZFV	C. CAPACITOR C		0.10	3	in tratation with a summir mir min		ECEVOJN1000	E. CAPACITOR CH			2
C30601	ECUX1H101JCV	C. CAPACITOR C	H 50V	100P	1		C30917	ECUX1E104ZFV	C. CAPACITOR CH			1
	ECEV1HV4R70	E. CAPACITOR C	H 50V	4.70	1	,	C30918, 19	ECUX1H220JCV	C. CAPACITOR CH			2
***		C. CAPACITOR C		0.10	2		C30922, 23	ECUX1E104ZFV	C. CAPACITOR CH	1 25V 0.1U		2
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	ECUX1H102JCV	C. CAPACITOR C		1000P	1		C30926, 27	ECUX1H470JCV	C. CAPACITOR CH	1 50V 47P		2
	ECST1CX106Z	T. CAPACITOR C	8 * ** * * * * * * * * * * * * * * * *	100	2			ECEV1CV1000	E. CAPACITOR CH			2
	ECUX1E104ZFV ECST1CX106Z	T. CAPACITOR C	1.4	0.10			11 -	ECUM1E473KBN	C. CAPACITOR CH			2
	ECUX1H103KBV	C. CAPACITOR C		10U 0.01U	2			ECST1CX106Z	T. CAPACITOR CH			2
	ECST1CX106Z	T. CAPACITOR C	4	100	1		C30934-38	ECUX1E104ZFV ECST1CY105Z	C. CAPACITOR CH)
	ECUX1E104ZFV	C. CAPACITOR C		0.10	l i		C30940	ECUM1E473KBN	C. CAPACITOR CH		1	1
C30616	ECUX1H103KBV	C. CAPACITOR C	THE RESERVE AND ADDRESS OF THE PARTY OF THE	0.010	1		1	ECUX1E104ZFV	C. CAPACITOR CH		1	2
C30617, 18	ECUX1E104ZFV	C. CAPACITOR C	H 25V	0.10	2		11 11 11 11	ECEVOJV3300	E. CAPACITOR CH			2
	ECEVIAV3300	E. CAPACITOR C	H 10V	330	. 1	n Marian Marian	C30945, 46	ECUX1E104ZFV	C. CAPACITOR CH	25V 0.1U		2
	ECUX1E104ZFV	C. CAPACITOR C		0. 1U	1		C30948	ECUX 1H330JCV	C. CAPACITOR CH	50V 33P		1
	ECUX1H222KBV	C. CAPACITOR C		2200P	1	Catalogue (Andrews on the Catalogue of State (Catalogue of State (C30949	ECUX1H271JCV	C. CAPACITOR CH	50V 270P	Ι	1
The second comment of the second comments of	ECUX1H103KBV	C. CAPACITOR C	C. C. S. Marce Physics	0.010			C30950	ECUX1H220JCV	C. CAPACITOR CH	W 100		1
N-84 (111111111111111111111111111111111111	ECUX1H221JCV ECUX1H390JCV	C. CAPACITOR C		220P 39P			C30952	ECUX1H680JCV	C. CAPACITOR CH			
	ECUX 1H390JCV	C. CAPACITOR C		0.010			C30953 C30954	ECUX1H121JCV	C. CAPACITOR CH			
	ECUX1E104ZFV	C. CAPACITOR C		0.10	;	The state of the s		ECUX1H100DCV ECUX1E104ZFV	C. CAPACITOR CH		1	3
	ECUX1H222KBV	C. CAPACITOR C		2200P	;		C30957-39	ECUMICIOSZFN	C. CAPACITOR CH	and the second second second	-	1
	ECUX1H103KBV	C. CAPACITOR C	er de la c	0.010	[il		C30961	ECUX1H470JCV	C. CAPACITOR CH			
C30629	ECUX1E104ZFV	C. CAPACITOR CI		0.10	1		C30962	ECUX1H103KBV	C. CAPACITOR CH		1	1
	ECUX1H471JCV	C. CAPACITOR C	H 50V	470P] 1]	01 1 0 to	C30963	ECUX1H050CCV	C. CAPACITOR CH	50V 5P		1
	ECUX1H220JCV	C. CAPACITOR C		22P	1		C30964	ECUX1H390JCV	C. CAPACITOR CH	50V 39P	1	1
	ECUX1E104ZFV	C. CAPACITOR C		0. IU	1	100 c 1000	C30965	ECUX1H150JCV	C. CAPACITOR CH	50V 15P	1	1
	ECST1CX106Z	T. CAPACITOR CI		100	2		C31001	ECUX1H101JCV	C. CAPACITOR CH	****************	1	
	ECUX1H180JCV ECUX1H103KBV	C. CAPACITOR CI		18P	2		C31002	ECUX1E104ZFV	C. CAPACITOR CH			!
	ECUX1H560JCV	C. CAPACITOR CI		56P		MINISTER CO. CO. CO. C.	C31003 C31004-08	ECUX1H221JCV ECUX1E104ZFV	C. CAPACITOR CH		1	
	ECUM1C474KBM	C. CAPACITOR C		0. 47U	;		C31004-08	ECUX1H391JCV	C. CAPACITOR CH		1	
	ECUX1E104ZFV	C. CAPACITOR CH		0.10	1		C31010	ECEVOJV4700	E. CAPACITOR CHE	en en en en en en en en en en en en en e	١.	
C30641	ECEV1AV330Q	E. CAPACITOR CH	1 10V	33U	1	**************************************	C31011	ECUX1H101JCV	C. CAPACITOR CH		1	
	ECUX1E104ZFV	C. CAPACITOR C	1 25V	0.1U	1		C31012	ECUX1H220JCV	C. CAPACITOR CH	and the second second		
	ECUX1H103KBV	C. CAPACITOR CI		0.010	1		C31013	ECUX1H151JCV	C. CAPACITOR CH	50V 150P	1	
the second second second	ECUX1E104ZFV	C. CAPACITOR CI		0.10	4	1. 1.1. AMERICA (M	C31014	ECEVOJV4700	E. CAPACITOR CHE	6.3V 47U		
	ECUX1E104ZFV	C. CAPACITOR CH	*******	0.10	- 1		C31015	ECUX1H100DCV	C. CAPACITOR CH			
	ECST1CX106Z ECUX1E104ZFV	C. CAPACITOR CH	**** * **	10U 0. 1U	2			ECUX1E104ZFV	C. CAPACITOR CH		13	2
	ECUX1H220JCV	C. CAPACITOR CH	CPE-91711779	22P	1	THE RESERVE OF THE PART AND THE	C31018 C31019-21	ECUX1H220JCV ECUX1E104ZFV	C. CAPACITOR CH			
	ECUX1H470JCV	C. CAPACITOR CH	11 14-1-41091-00111-1-41	47P	il	Control to come that substitutes the control control programs after a control		ECUX1H271JCV	C. CAPACITOR CH			
C30813	ECUX1H101JCV	C. CAPACITOR CH	11 866 1 1	100P	î	* * *			C. CAPACITOR CH		Hi	
C30815	ECUX1E104ZFV	C. CAPACITOR CH	1 25V	0.10	1		4:	PREFERENCE (CONT. CONT.	C. CAPACITOR CH	***************************	1	
		C. CAPACITOR CH	167	0.47U	2		C31025	ECST1CX106Z	T. CAPACITOR CH		l	
COLUMN TO AND ADDRESS OF TAXABLE CO.	#F-4:7:46a441444.44.14444.44.14	C. CAPACITOR CH		150P	1	Colonia de la constanta de la	C31026	ECUX1H820JCV	C. CAPACITOR CH		1	
	an expense to encine and the or	C. CAPACITOR CH	101000	1000P	1			ECUX1E104ZFV	C. CAPACITOR CH		1 4	
	** ** * *** ** ** * * * * * * * * *	C. CAPACITOR CH	***************************************	150P	-!	######################################	***************************************	ECUX1H820JCV	C. CAPACITOR CH		1	
and the second of the second of		C. CAPACITOR CH		1000P 0.1U	1	At t .		ECUX1E104ZFV	C. CAPACITOR CH		1	
		C. CAPACITOR CH		0. 10 2P	1	er er er en en en er en er en er en er en er en er er er er er er er er er er er er er		ECUX1H220JCV ECUX1H220JCV	C. CAPACITOR CH	A DOS TO A SECURE CONTRACTOR OF THE	[]	
		C. CAPACITOR CH		120P	il				C. CAPACITOR CH	Andrew Contract of		
	F 1 P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C. CAPACITOR CH		10	1		1	ECUX1H220JCV	C. CAPACITOR CH		,	
		C. CAPACITOR CH	50V	2P	1	\$\frac{1}{2}\ldots\frac	***************************************		C. CAPACITOR CH		1	A TOWNSON PROPERTY AND THE REAL PROPERTY AND THE PROPERTY
* 1	half to commence and an one of the decision	C. CAPACITOR CH	25V	0.10	4	· ·		ECST1CX106Z	T. CAPACITOR CH		2	
		C. CAPACITOR CH		47P	. 1		C31103	ECUX1E104ZFV	C. CAPACITOR CH	25V 0.1U	1	
		C. CAPACITOR CH		18P	1				C. CAPACITOR CH		1	
		C. CAPACITOR CH		47P	-#			ECUX1E104ZFV	C. CAPACITOR CH	11 - 4 - 111 - 1 1 1 4 4 4 4 4 4 4 4 4 4	1	breeze a communicación acumo contractor a contractor acumo contractor a contractor acumo contractor a contrac
A20030	the state of the s	C. CAPACITOR CH C. CAPACITOR CH		120P 22P			1		C. CAPACITOR CH		1	1
The state of the s		C. CAPACITOR CH		56P	- 1		1 ann are er 1		C. CAPACITOR CH		1	
C30837		C. CAPACITOR CH		0.10	3				C. CAPACITOR CH			
C30837 C30838	ECUXTE 104ZEV 1			47P	1		1 1	ECST1CX106Z	C. CAPACITOR CH : T. CAPACITOR CH :		1	
C30837 (C30838 C30839-41		C. CAPACITOR CH	304						C. CAPACITOR CH !		2	
C30837 C30838 C30839-41 C30842	ECUX1H470JCV	C. CAPACITOR CH		0.10	-1		,					
C30837 C30838 C30839-41 C30842 C30844 C30844, 45	ECUX1H470JCV ECUX1E104ZFV ECST1CX106Z		25V	0. 1U 10U	2		C31114	ECUX1H151JCV	C. CAPACITOR CH !		1	
C30837 C30838 C30839-41 C30842 C30843 C30844, 45 C30846, 47	ECUX1H470JCV ECUX1E104ZFV ECST1CX106Z ECUX1E104ZFV	C. CAPACITOR CH	25V 16V	- 1	2 2				C. CAPACITOR CH !	50V 150P	1 2	
C30837 C30838 C30839-41 C30842 C30843 C30844, 45 C30846, 47 C30848	ECUX1H470JCV ECUX1E104ZFV ECST1CX106Z ECUX1E104ZFV ECEV1CV1000	C. CAPACITOR CH T. CAPACITOR CH C. CAPACITOR CH E. CAPACITOR CH	25V 16V 25V 16V	10U 0.1U 10U	2 2		C31117, 18	ECUX1E104ZFV	a compressed to the telephone on the meaning	50V 150P 25V 0.1U	1 2	
C30837 (C30838 (C30839 - 41 (C30842 (C30844 (C30844 (C30846 (C30846 (C30848 (C30849 (C30844) (C308449 (C30844) (C308449 (C30844) (C308449 (C30844) (C308449 (C30844) (C308449 (C30844) (C30844) (C308449 (C30844) (C3	ECUX1H470JCV ECUX1E104ZFV ECST1CX106Z ECUX1E104ZFV ECEV1CV1000 ECUX1E104ZFV	C. CAPACITOR CH T. CAPACITOR CH C. CAPACITOR CH E. CAPACITOR CH C. CAPACITOR CH	25V 16V 25V 16V 25V	10U 0. 1U 10U 0. 1U	1 2 2 1 1		C31117, 18 C31119 C31120	ECUX1E104ZFV ECUX1H470JCV ECUX1H220JCV	C. CAPACITOR CH 2	50V 150P 25V 0.1U 50V 47P	1 2 1	
C30837 (20839-41) (20842 (20843 (20844, 45) (20846, 47) (20848 (20849 (20849) (20851) (20851) (20851) (20851) (20851) (20851) (20851) (20851) (20851) (20851) (20851) (20851) (20851) (20851) (20851) (20851) (20851) (20851)	ECUX1H470JCV ECUX1E104ZFV ECST1CX106Z ECUX1E104ZFV ECEV1CV1000 ECUX1E104ZFV ECUX1E104ZFV	C. CAPACITOR CH T. CAPACITOR CH C. CAPACITOR CH E. CAPACITOR CH C. CAPACITOR CH C. CAPACITOR CH	25V 16V 25V 16V 25V 25V	10U 0. 1U 10U 0. 1U 0. 1U	2 2 1 1 1		C31117, 18 C31119 C31120 C31121-23	ECUX1E104ZFV ECUX1H470JCV ECUX1H220JCV ECUX1E104ZFV	C. CAPACITOR CH : C. CAPACITOR CH :	50V 150P 25V 0.1U 50V 47P 50V 22P	1 1 3	
C30837 C30838 C30842 C30843 C30844 45 C30846 47 C30848 C30849 C30851 C30851 C30851 C30851 C30851 C30851 C30851 C30857 C3	ECUX1H470JCV ECUX1E104ZFV ECST1CX106Z ECUX1E104ZFV ECEV1CV1000 ECUX1E104ZFV ECUX1E104ZFV	C. CAPACITOR CH T. CAPACITOR CH C. CAPACITOR CH E. CAPACITOR CH C. CAPACITOR CH	25V 16V 25V 16V 25V 25V	10U 0. 1U 10U 0. 1U	1 2 2 1 1 1 4		C31117, 18 C31119 C31120 C31121-23	ECUX1E104ZFV ECUX1H470JCV ECUX1H220JCV ECUX1E104ZFV	C. CAPACITOR CH 2 C. CAPACITOR CH 5 C. CAPACITOR CH 5	50V 150P 25V 0.1U 50V 47P 50V 22P 25V 0.1U	1 1 3 2	

D. r. M., 1	Part No.	Part Name & DescriptionPe	Remarks	Ref.No.	Part No.	Part Name & Description	Pes	Remarks
Ref. No.	ECUX1H220JCV	C, CAPACITOR CH 50V 22P	RCHIATES		N.AMO82BV	IC	1	,,,
	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U		IC31004	MM74HC221AM	IC	1	
	ECST1CX106Z	T. CAPACITOR CH 16V 10U		IC31005	TC7S32FU	IC	ו	
The second secon	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U		1C31101	MC14053BF	IC	1	
001200 17			1	IC31102	AD826AR	lic	1	
D30201	MA142K	D100E		1031103	TC7SH08FU	IC	1	L
D30301	MA142WK	DIODE		1C31104	TC7S14F	ıc	1	
D30601	MA142K	DIODE		IC31105	UPD6456T611Y	IC	1	
D30801	MA142K	DIODE		IC31106	NJM2534V	1C	1	
D30902	MA142K	DIODE	1	IC31201,02		IC	2	
D31001	MA142WK	DIODE		IC31203	XC62AP3002P	IC		
D31002,03	MA335-R	DIODE	2	IC31204	M62370GP	IC		
	ţ		A STATE OF THE STA			- programme	ļ.,	***************************************
FL30101,0	VLF0941C223	FILTER	2		VL00319K101	COIL 100UH	1 2	la de la companya de
FL30201	VLF1015	FILTER	<u> </u>	L30206,07	VL00319K101	COIL 100UH	1	
FL30301	VLF1353	FILTER		L30208	VL00163J180	COIL 18UH	-	particle of the particle of the second of th
FL30401.0	VLF1355	FILTER	2	L30209	VL00163J220	COIL 22UH	1	
	VLF0941C223	FILTER	2	L30210	VL00163J180	COIL 22UH	-	
FL30801	VLF1354	FILTER		L30211	VL00163J220	COIL 100UH	1.	are the second s
FL30901,0	VLF1355	FILTER	2		VL00319K101 VL00133J471	COIL 470UH	1	
				L30303	VL001333471 VL00319K101	COIL 100UH	1	
	XC62AP5002P	IC .	4		VL00319K101	COIL 1000H		
1C30203	XC62DN5002P	IC	I	management and another section of	VL00319K101	COIL 100UH		3
1030204	CXD2024A0	1C	<u>'</u>	L30604	VL00313K101	COIL 47UH	1	
1030205	MM74HC221AM	IC		The second second second second second	VLQ0319K101	COIL 100UH		2
1030206	LT1228CS8	IC	1		VL00319K101	COIL 100UH	1	2
1030207	AN3296S	IC IC	<u>'</u>	L30804	VL00163J470	COIL 47UH		1
1C30208 1C30209	TC4W53FU TC7SH08FU	110	1	L30901, 02		COIL 100UH		2
1C30209	AN91A12S	ic ic		L30903	VL00163J470	COIL 47UH	1	1
1C30302	TC4W53FU	lic	1	L30904	VL00163J270	COIL 27UH	1	1
1030305	NJM78L09UA	lic	1	L30905	VLQ0163J6R8	COIL 6.8UH	1	1
1030307	TC4W53FU	lic	1	L30906, 07	VL00163J5R6	COIL 5.6UH		2
1C30401	NJM78L09UA	lic	1	L31001,02	VL00319K101	COIL 100UH	I	2
	NJM1496V	lic	2	L31003	VLQ0163J181	COIL 180UH		1
1C30501	TC7SH08FU	lic	1	L31004	VL00163J560	COIL 56UH	1	1
1C30502	XC62DN5002P	IC	1	L31005-07	VLQ0163J470	COIL - 47UH		3
1030503	AD826AR	lic	1	L31101,02	VLQ0163J470	COIL 47UH	_	2
IC30504	XC62AP5002P	10	1	L31103	VL00163J270	COIL 27UH		11
IC30505	AD817AR	ic	1	L31104	VLQ0163J680	COIL 68UH		1
IC30506	XC62AP5002P	IC	1				-	
1C30507-0	29 CXD11760	lic .	3	P30101	VJP40640160	CONNECTOR (MALE)		
IC30510-1	12 TVHC541FT	IC	3	Band and the state of the state		TO MOLOTOB DECLETOR	-	4
IC30601	TC7W04FU	IC	1	030201	XN4601	TRANSISTOR-RESISTOR	1	
1030602	MM74HC221AM	IC	<u> </u>	030202	2SB1218A-R 2SA1532-B	TRANSISTOR TRANSISTOR	+	
IC30604	TC7W74FU	IIC		030203 030204	2SD1819A-R	TRANSISTOR	+-	1
(C30605	DM74LS221SJ	ic		030204	XN4501	TRANSISTOR-RESISTOR	-	1
1C30606	XC62AP5002P	IC	-		2SD1819A-R	TRANSISTOR	+-	2
IC30607	NJM319V	IC	1	1 1:	2SB1218A-R	TRANSISTOR	1	2
1030608	TC7W04FU NJM082BV	IC IC	1	030303	2SB1218A-R	TRANSISTOR	1	1
1C30609 1C30610	NJM082BV	IC	1	030304	2SD1819A-R	TRANSISTOR	t	1
IC30610	MC14053BF	IC IC	il	1 1	2SB1218A-R	TRANSISTOR		2
IC30612	UPD65013BC16		Angel Mary 1807 to 19 to	030307	2SA1532-B	TRANSISTOR	1	1
1030701	MN53015VZW	ic	1		2SD1819A-R	TRANSISTOR	1	2
	01TC7SH08FU	lic .	2	030401,0	2SD1819A-R	TRANSISTOR	1	2
1030801	MC14053BF	iC	1	030403, 04	2SA1532-B	TRANSISTOR		2
IC30802	TC7S32FU	IC	1	030405, 00	2SD1819A-R	TRANSISTOR	_	2
IC30803	TC4W53FU	IC	1	030501	2SD1819A-R	TRANSISTOR	1	1
IC30804.	05LT1228CS8	ıc	2	030601,0	and the contract of the contra	TRANSISTOR		2
1C30806	NJM2534V	IC	1	030801	2SD1819A-R	TRANSISTOR		1
IC30807	XC62AP5002P	10	1	030802	XN4601	TRANSISTOR-RESISTOR		<u></u>
IC30808	NJM082BV	IC	The same and the s	030803	2SA1532-B	TRANSISTOR	-	
IC30809	XC62DN5002P	IC		030804, 0	1	TRANSISTOR		4
IC30810	NJM78L09UA	ic	.]]	030806	2SA1532-B	TRANSISTOR	1	1
1C30811	TC7W04FU	IC .		030807	2SC3930-B	TRANSISTOR		1
1C30812	TC7SH08FU	IC	1	030808	2SB1218A-R	TRANSISTOR		1
IC30813	TC4W53FU	IC	The second secon	030809	2SA1532-B	TRANSISTOR TRANSISTOR	-	1
IC30901	BA7655AF	IC	1	030810	2SB1218A-R 2SA1532-B	TRANSISTOR		i
1030902	AD826AR	IC .		Q30811 Q30812	2SA1532-B 2SD1819A-R	TRANSISTOR		1
1030903	XC62AP5002P	10	1	1 1 1 1 1 1 1 1	4 2SA1532-B	TRANSISTOR		2
1C30904	NJM082BV	IC	1	11	6 2SD1819A-R	TRANSISTOR		2
IC30905	M51272FP	IC	1	4 b	4 2SD1819A-R	TRANSISTOR	+	4
IC31001 IC31002	TC7SH08FU	IC IC	il	11	6 2SA1532-B	TRANSISTOR		2
1 1031002	MC14053BF	H [18 A A A A A A A A A A A A A A A A A A A		11	1 - 1 - 1 - 1	1	1	
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Ref. No.	Part No.	Part Name & Description	Pes	.Remarks	Ref. No.	Part No.	Part Name & Desc		Pe	s Remarks
	2SD1819A-R 2SB1218A-R	TRANSISTOR	2		R30268	ERJ3GEYJ684	M. RESISTOR CH 1/16W			
030909	2SC3930-B	TRANSISTOR TRANSISTOR			R30269	ERJ3RBD153	M. RESISTOR CH 1/16W	15K	1	
030912	2SB1218A-R	TRANSISTOR	'	*** **********************************	R30270	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	1	
030912	2SC3930-B	TRANSISTOR			R30271 R30274	ERJ3GEY0R00 ERJ3RBD222	M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W	0 2 2 M		
031001	2SC3930-B	TRANSISTOR			R30274	ERJ3GEY0R00				
031001	2SD1819A-R	TRANSISTOR	1		R30276, 77		M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W	0 1K		
031003	2SB1218A-R	TRANSISTOR	1		R30278,77	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1	
031004	2SC3930-B	TRANSISTOR	1		R30279	ERJ3GEYJ823	M. RESISTOR CH 1/16W	82K		Name of the same o
	2SB1218A-R	TRANSISTOR	2		R30280	ERJ3RBD223	M. RESISTOR CH 1/16W	22K		
031007	2SC3930-B	TRANSISTOR	1		R30281	ERJ3RBD222	M. RESISTOR CH 1/16W			
031008,09	2SB1218A-R	TRANSISTOR	2		R30282	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47		
031012	2SD1819A-R	TRANSISTOR	i		R30283	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	١,	
031015	2SD1819A-R	TRANSISTOR	1	AND THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSO	R30284	ERJ3GEYG682	M. RESISTOR CH 1/16W		1	
031101	XN4601	TRANSISTOR-RESISTOR	1		R30285	ERJ3RBD222	M. RESISTOR CH 1/16W		۱ ا	
031102	2SB1218A-R	TRANSISTOR	1		R30286, 87	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	2	2
031103,04	2SA1532-B	TRANSISTOR	2		R30288	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	1	,
031105	2SB1218A-R	TRANSISTOR	1		R30289	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	
031106	2SD1819A-R	TRANSISTOR	1	THE PROPERTY OF THE PROPERTY O	R30302	ERJ3RBD222	M. RESISTOR CH 1/16W	2.2K	1	
					R30303	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	
OR30501-03	UN5213	TRANSISTOR-RESISTOR	3		R30305	ERJ3RBD222	M. RESISTOR CH 1/16W	2.2K	1	
					R30308	ERJ3RB0223	M. RESISTOR CH 1/16W	22K	1	
	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	N. Later 10- and 1- alternative and 1- representation and 1- and 1- and 1- and 1- and 1- and 1- and 1- and 1-	R30309	ERJ3GEYG152	M. RESISTOR CH 1/16W	1.5K	1	
Market Control of the Control	ERJ3RB0102	M. RESISTOR CH 1/16W 1K			R30310	ERJ3RBD101	M. RESISTOR CH 1/16W	100	1	
*************************	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	!	the contract of the contract of the spinor of	· R30312	ERJ3RBD103	M. RESISTOR CH 1/16W	10K	1	
	ERJ3RBD101	M. RESISTOR CH 1/16W 100	!		R30313	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	1	
ALTONOMORPH AND ADDRESS OF	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K			R30317	ERJ3RBD222	M. RESISTOR CH 1/16W		1	
	ERJ3RB0102	M. RESISTOR CH 1/16W 1K	2	99 (1997) 4 4 1 0 1 2000 1 1994 1 1974 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R30323	ERJ3GEYJ224	M. RESISTOR CH 1/16W	220K	1	
	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0			R30324	ERJ3GEYJ684	M. RESISTOR CH 1/16W	680K	1	
	ERJ3GEY0R00 ERJ3R8D102	M. RESISTOR CH 1/16W 0	[.]		R30325-27	ERJ3RBD103	M. RESISTOR CH 1/16W	10K	3	
	ERJ3RBU102 ERJ3GEY0R00	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 0		The second secon	R30330	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	!	
	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47			R30331 R30334	ERJ3GEYJ470 ERJ3RBD222	M. RESISTOR CH 1/16W	47 2 24	1	
************	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	;	A STATE OF THE PROPERTY OF THE	R30334	ERJ3RB0222	M. RESISTOR CH 1/16W	***************************************	! ;	
	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	H		R30338	ERJ3RBD102	M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W	2.2K		
	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	;	CONTRACTOR OF THE PROPERTY OF THE STATE OF T	R30339	ERJ3RBD562	M. RESISTOR CH 1/16W	1K	١,	
	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220		The second section of the second section of the second section of the second section of the second section of the second section secti	R30340	ERJ3RBD223	M. RESISTOR CH 1/16W	22K		
	ERJ3RBD471	M. RESISTOR CH 1/16W 470	H		R30342	ERJ3R80101	M. RESISTOR CH 1/16W	100	1	
	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	Hil		R30343	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	1	
	ERJ3RB0221	M. RESISTOR CH 1/16W 220	1	* *	R30344	ERJ3RBD222	M. RESISTOR CH 1/16W	2.2K	1	
	ERJ3RB0102	M. RESISTOR CH 1/16W 1K		0.5 × 10 Mo-10-100 (1 + 2.00 (1) (1) (1 + 2.00 (1) (1) (1)	The state of the same of the	ERJ3GEYG152	M. RESISTOR CH 1/16W	1.5K	2	
R30227	ERJ3GEYJ124	M. RESISTOR CH 1/16W 120K	[il		R30347	ERJ3GEYJ681	M. RESISTOR CH 1/16W	680	1	
R30228, 29	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2		R30348	ERJ3RBD222	M. RESISTOR CH 1/16W	- 1	1	"
	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	2	W Handa .	R30349, 50	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	2	
	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K			R30351	ERJ3RBD222	M. RESISTOR CH 1/16W	2.2K	1	
	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K			R30352	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1	1
	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K			R30353	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1	
	ERJ3RBD101	M. RESISTOR CH 1/16W 100			R30354	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1	MINISTER AND ADDRESS OF THE PROPERTY OF THE PR
we will be a see to a	a comparation of the comparation of	M. RESISTOR CH 1/16W 3.3K	2			ERJ3RBD101	M. RESISTOR CH 1/16W	100	2	
	THE SHIP CO. IN CO. MANUAL PROPERTY OF THE PARTY OF THE P	M. RESISTOR CH 1/16W 2.2K		Ale che a labore meneral competition and a second	to the territories of the second	ERJ3RBD102	M. RESISTOR CH 1/16W	1 K	2	
		M. RESISTOR CH 1/16W 10K	4		R30405	ERJ3GEYJ681	M. RESISTOR CH 1/16W	680	- 1	
CONTRACTOR CONTRACTOR CO.	Mile and the second of the second	M. RESISTOR CH 1/16W 47K M. RESISTOR CH 1/16W 2.2K		-	R30406	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	1	
·		M. RESISTOR CH 1/16W 1.2K	1	. Platte star at a star particular state and a state of the state of the star		ERJ3RBD821 ERJ3RBD102	M. RESISTOR CH 1/16W	820	1	
Mary Charles Assessed A. B. Copp. 1	7 c 2 de 1 de 1 de 1	M. RESISTOR CH 1/16W 75				ERJ3RBD102 ERJ3RBD682	M. RESISTOR CH 1/16W	1K	2	
		M. RESISTOR CH 1/16W 1K	- 1		the state of the state of the state of	ERJ3RBD272	M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W	5.8K	2	
		M. RESISTOR CH 1/16W 47K	H	HIND BUT CODE BOOKERS BOOKERS COME TO SERVICE A SERVICE OF THE SER		ERJ3RBD101	M. RESISTOR CH 1/16W	100	A	and the second second
1 10 mm - 1 1 1		M. RESISTOR CH 1/16W 560K	ازا	l		ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1	
		M. RESISTOR CH 1/16W 3.3K	i	oraproperty 1,19, arrystellaus sillifusiella della silla della silla della silla della della della della silla		ERJ3RBD272	M. RESISTOR CH 1/16W		1	The same party of the same same same same same same same sam
		M. RESISTOR CH 1/16W 22K				ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1	
	61 H - 65 - 100 H - 6 - 100 H	M. RESISTOR CH 1/16W 33K	il			ERJ3RBD272	M. RESISTOR CH 1/16W		,	0.0000000000000000000000000000000000000
Commence of the same of the sa		M. RESISTOR CH 1/16W 330	1			ERJ3RBD222	M. RESISTOR CH 1/16W		2	
4		M. RESISTOR CH 1/16W 68K	1			ERJ3RBD102	M. RESISTOR CH 1/16W	1K	4	
		M. RESISTOR CH 1/16W 200	1	· · · · · · · · · · · · · · · · · · ·		ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	2	A COLOR DE C
R30256		M. RESISTOR CH 1/16W 10K	1		1 1	ERJ3RB0102	M. RESISTOR CH 1/16W	1K	4	
R30257, 58	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	2			ERJ3GEY0R00	M. RESISTOR CH 1/16W	ő	2	
R30259	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1			ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	2	
R30260	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K	1			ERJ3RBD102	M. RESISTOR CH 1/16W	1K	2	
R30261	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1		R30439, 40		M. RESISTOR CH 1/16W	22K	2	- to a commonweal contract of the contract of
R30262	,	M. RESISTOR CH 1/16W 6.8K	1			ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1	
R30263	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	-1		1 1	ERJ3RBD223	M. RESISTOR CH 1/16W	22K	1	
R30264	ERJ3RBD201	M. RESISTOR CH 1/16W 200	1		R30504-06	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	3	
R30265	RJ3GEYJ753	M. RESISTOR CH 1/16W 75K	1		R30509, 10	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	2	
R30266	RJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R30511	ERJ3GEYJ182	M. RESISTOR CH 1/16W	1.8K	1	and the second s
R30267	RJ3RBD471	M. RESISTOR CH 1/16W 470	1		R30512, 13	ERJ3RBD222	M. RESISTOR CH 1/16W	2.2K	2	
1130207								- 1		

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Ref. No.	Part No.	Part Name &			'cs	Remarks	Ref. No.	Part No.	Part Name & Descri		l'es	Remarks
R30514	ERJ3RBD122	M. RESISTOR CH		1.2K	1		R30805	ERJ3RBD332	M. RESISTOR CH 1/16W	3.3K	1.1	
R30515-20	ERJ3GEYJ470	M. RESISTOR CH	1/16W	47	6		R30806	ERJ3R80102	M. RESISTOR CH 1/16W	1K	1	
R30525	ERJ3RBD122	M. RESISTOR CH	1/16W	1.2K	1		R30807, 08	ERJ3RBD222	M.RESISTOR CH 1/16W	2.2K	2	
R30527	ERJ3RBD102	M. RESISTOR CH	1/16W	1K	1		R30809	ERJ3GEYG472	M. RESISTOR CH 1/16W	4.7K	1	
R30529	ERJ3RBD222	M. RESISTOR CH	1/16W	2.2K	1		R30810	ERJ3GEYJ823	M. RESISTOR CH 1/16W	82K	i.	
R30530, 31	ERJ3GEYJ104	M. RESISTOR CH	1/16W	100K	2		R30811, 12	ERJ3GEYJ333	M. RESISTOR CH 1/16W	33K	2	
R30532	ERJ3GEYJ183	M. RESISTOR CH		18K	1		R30813	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	1	
1	ERJ3GEYJ750	M. RESISTOR CH		75	2		R30814	ERJ3RBD821	M. RESISTOR CH 1/16W	820	1	
R30535	ERJ3GEYJ683	M. RESISTOR CH		68K	1		R30815	ERJ3RBD223	M. RESISTOR CH 1/16W	22K	1	
R30536	ERJ3GEYJ750	M. RESISTOR CH		75	- 1			ERJ3GEYG152	The second of the second	1.5K		
								·			1	
	ERJ3RBD682	M. RESISTOR CH					R30818	ERJ3RBD221	M. RESISTOR CH 1/16W	220	1	
R30539	ERJ3RBD153	M. RESISTOR CH		15K	- 1		R30819	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1	
R30542	ERJ3RBD682	M. RESISTOR CH	1/16W	6.8K	1		R30820	ERJ3RBD222	M. RESISTOR CH 1/16W	2.2K	1	2004 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
R30545	ERJ3RBD682	M. RESISTOR CH	1/16W	6.8K	- 1		R30821	ERJ3GEYG152	M. RESISTOR CH 1/16W	1.5K	-1	
R30548	ERJ3GEY0R00	M. RESISTOR CH	1/16W	0	1	}	R30822	ERJ3RBD222	MLRESISTOR CH 1/16W	2.2K	1	
R30555-57	ERJ3GEY0R00	M. RESISTOR CH	1/16W	0	3		R30823,24	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	2	
R30558-81	ERJ3RBD101	M. RESISTOR CH	1/16W	100	24		R30825	ERJ3RBD332	M. RESISTOR CH 1/16W	3.3K	1	
R30603	ERJ3RBD103	M. RESISTOR CH	1/16W	10K	1	l i	R30827	ERJ3R80332	M. RESISTOR CH 1/16W	3.3K	i	
R30604	ERJ3RBD472	M. RESISTOR CH		4.7K	1	***************************************	R30828-30		M. RESISTOR CH 1/16W	33K	3	
R30605	ERJ3GEYJ105	M. RESISTOR CH		1M	1		R30831	ERJ3RBD331	M. RESISTOR CH 1/16W	330	,	
R30606	ERJ3GEYG682	M. RESISTOR CH	****		1		R30832	ERJ3GEYJ333	M. RESISTOR CH 1/16W	33K	1	
					1			4			-	
R30607	ERJ3GEYJ333	M. RESISTOR CH		33K	1		R30833	ERJ3RBD331	M. RESISTOR CH 1/16W	330	1	
R30608	ERJ3RBD272	M. RESISTOR CH	*****************				R30834	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	1	
R30609	ERJ3GEY0R00	M. RESISTOR CH		0	1		R30835	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	
R30610	ERJ3GEYJ105	M. RESISTOR CH		1M	1		R30836	ERJ3RBD221	M. RESISTOR CH 1/16W	220	1	e nonnemental median kannana kan anama periode de sel fond
R30611	ERJ3RBD101	M. RESISTOR CH		100	1	.,	R30837	ERJ3GEYJ104	Carrier Control of Carana and the Indiana Control	100K	1	National Control of the State Control of the Contro
R30612	ERJ3RBD103	M. RESISTOR CH	1/16W	10K	1		R30838	ERJ3RB0221	M. RESISTOR CH 1/16W	220	1	
R30613	ERJ3GEY0R00	M. RESISTOR CH	1/16W	0	1	MATERIA PARA MANDANIA	R30839	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	1	
R30614, 15	ERJ3RBD103	M. RESISTOR CH	1/16W	10K	2	was an annual constant of both models on sidelicity mass famous	R30840	ERJ3GEYJ823	M. RESISTOR CH 1/16W	82K	1	
R30616	ERJ3RBD101	M. RESISTOR CH	1/16W	100	1		R30841	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	
R30617, 18	ERJ3GEY0R00	M. RESISTOR CH	1/16W	0	2		R30842	ERJ3GEYJ124	M. RESISTOR CH 1/16W	120K	1	
R30620	ERJ3RBD183	M. RESISTOR CH		18K	1	The same same was to the same of	R30844	ERJ3GEYJ823	M. RESISTOR CH 1/16W	82K	1	
R30622	ERJ3RBD223	M. RESISTOR CH		22K	1	* * * * * * * * * * * * * * * * * * * *	R30845	ERJ3GEYJ273	M. RESISTOR CH 1/16W	27K	i	
R30623	ERJ3GEYJ222	M. RESISTOR CH	*******	2.2K	1	an ha bha d a bha da a bha bha a bha bh dh dh dh dha bha a b	R30846	ERJ3RBD101	M. RESISTOR CH 1/16W	100	1	
R30624	ERJ3GEYG471	M. RESISTOR CH		470	i		R30847	ERJ3GEYJ103		10K	1	
		•			-				M. RESISTOR CH 1/16W			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
R30625	ERJ3GEYJ681	M. RESISTOR CH		680	. !		R30848	ERJ3RBD101	M. RESISTOR CH 1/16W	100		1 M W W 1
R30626	ERJ3RBD472	M. RESISTOR CH		4.7K			R30849	ERJ3RBD473	M. RESISTOR CH 1/16W	47K	. !	
R30627	ERJ3RBD101	M. RESISTOR CH		100			R30850	ERJ3RBD332	M. RESISTOR CH 1/16W	***************************************	1	
R30628	ERJ3GEY0R00	M. RESISTOR CH		. 0	1		R30851	ERJ3GEYG472	The second second second	4.7K	1	
R30629	ERJ3RBD103	M. RESISTOR CH	1/16W	10K	1		R30852	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1	
R30630	ERJ3RBD101	M. RESISTOR CH	1/16W	100	1		R30853	ERJ3RBD153	M. RESISTOR CH 1/16W	15K	1	
R30631	ERJ3RBD562	M. RESISTOR CH	1/16W	5.6K	1		R30854	ERJ3GEYJ681	M. RESISTOR CH 1/16W	680	-1	
R30633, 34	ERJ3RBD102	M. RESISTOR CH	1/16W	1K	2		R30855	ERJ3RBD221	M. RESISTOR CH 1/16W	220	-1	
R30635	ERJ3RBD153	M. RESISTOR CH	1/16W	15K	1	1 1 3 1 3 - 1 1 2 1 3 1 3 1 3 1 3 3 3 3 4 4 4 4 4 5 1 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	R30856	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	1	
R30637	ERJ3RBD472	M. RESISTOR CH	1/16W	4.7K	1		R30857	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1	•
R30638	ERJ3GEYG332	M. RESISTOR CH	1/16W	3.3K	1		R30859	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	
R30639	ERJ3RBD562	M. RESISTOR CH			1		R30861	ERJ3RBD473	M. RESISTOR CH 1/16W	47K	1	
R30640	ERJ3RBD103	M. RESISTOR CH		10K	1		R30862	ERJ3RBD221	M. RESISTOR CH 1/16W	220	i	
	ERJ3GEY0R00	M. RESISTOR CH		0	3		R30863	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	1	
R30649	ERJ3RBD222	M. RESISTOR CH			,			ERJ3GEYG472			,	
									M. RESISTOR CH 1/16W			
R30650	ERJ3GEYJ103	M. RESISTOR CH	DEPENDANT CONTRA	10K	÷		R30866	ERJ3RBD332	M. RESISTOR CH 1/16W			
R30651	ERJ3RBD222	M. RESISTOR CH			- 1		R30867	ERJ3GEYJ223	1	22K	1	
R30652	ERJ3RBD103	M. RESISTOR CH		10K	1	#188 ⁴ -9; #Med (Michigan)	R30868	ERJ3GEYG472	M. RESISTOR CH 1/16W		_1	
R30653	ERJ3GEYJ334	M. RESISTOR CH		330K	1		R30869	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1	
R30654	ERJ3RB0103	M. RESISTOR CH		10K	1		R30870	ERJ3RBD473	M. RESISTOR CH 1/16W	47K	_1	to the action to the control of the
R30656	ERJ3GEY0R00	M. RESISTOR CH		0	1		R30871	ERJ3RBD221	M. RESISTOR CH 1/16W	220	. 1	or commencer and a complete to a section of
R30658	ERJ3RBD103	M. RESISTOR CH	1/16W	10K	1		R30872	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	1	
R30661	ERJ3RBD103	M. RESISTOR CH	1/16W	10K	1		R30873	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1	
R30662	ERJ3GEY0R00	M. RESISTOR CH	1/16W	0	1		R30874	ERJ3RBD682	M. RESISTOR CH 1/16W	6.8K	1	The state of the s
R30664	ERJ3GEYJ105	M. RESISTOR CH		1M	1	 	R30875	ERJ3RBD101	M. RESISTOR CH 1/16W	100	- 1	
R30666	ERJ3RBD103	M. RESISTOR CH		10K	1		R30876	ERJ3GEYJ122		1.2K	1	
R30667	ERJ3GEYJ563	M. RESISTOR CH		56K	1		R30877	ERJ3GEYJ331	M. RESISTOR CH 1/16W	330	1	
R30668-70		M. RESISTOR CH		1	2		R30878	ERJ3RBD102	The second secon		- ; }	
		•			1			*	M. RESISTOR CH 1/16W	1K	- ;	and the second section of the section of t
R30671	ERJ3RBD471	M. RESISTOR CH		470			R30879	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	- '	
R30672	ERJ3RBD103	M. RESISTOR CH		10K	1		R30880	ERJ3GEYJ333	M. RESISTOR CH 1/16W	33K	!	
R30673	ERJ3RBD102	M. RESISTOR CH		1K	1		R30881	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	
R30674	ERJ3GEYG102	M. RESISTOR CH		1K	1		R30882	ERJ3RBD473	M. RESISTOR CH 1/16W	47K	1	
The state of the s	ERJ3RBD103	M. RESISTOR CH		10K	4		R30883	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	COMMERCIA DE DES MARIO DE LA COMPUNE DE LA C
R30705-07	ERJ3GEY0R00	M. RESISTOR CH		0	3		R30884	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	- 1	to the second se
R30708	ERJ3RBD103	M. RESISTOR CH	1/16W	10K	-1	[R30901,02	ERJ3GEYJ104	M. RESISTOR CH 1/16W 1	100K	2	
R30709, 10	ERJ3GEY0R00	M. RESISTOR CH	1/16W	0	2		R30903,04	ERJ3GEYG332	M. RESISTOR CH 1/16W	3. 3K	2	
R30801	ERJ3GEY0R00	M. RESISTOR CH	1/16W	0	1	- · · · · ·	R30905	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	-1	
R30802	ERJ3GEYJ470	M. RESISTOR CH		47	-1		R30906	ERJ3RBD183	M. RESISTOR CH 1/16W	18K	1	
R30803	ERJ3GEYJ104	M. RESISTOR CH		100K	1		R30907	ERJ3GEYJ333	M. RESISTOR CH 1/16W	33K	1	The Committee of the Co
R30804	ERJ3GEYJ105	M. RESISTOR CH		1M	1	 	R30908	1	M. RESISTOR CH 1/16W	1K	,	į
	1		., . •••	:		· · ·	1	- NO. 102	The second secon	""	1	
				ł							- 1	
L	L	L		1		L		L	1	1		

Ref. No.	Part No.	Part Name & Descriptio	n Pes	Remarks	Ref.No.	Part No.	Part Name & Descr	iption	Pes	Remarks
R30909	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	1		R31029	ERJ3RB0221	M.RESISTOR CH 1/16W	220	1	
R30910	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	11	R31030	ERJ3RBD332	M. RESISTOR CH 1/16W	3.3K	1	
	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	3		R31031	ERJ3GEYG152	M. RESISTOR CH 1/16W	1,5K	1	
	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K	2	[]	R31032	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47		
R30916	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	+ !		R31033	ERJ3GEYJ105	M. RESISTOR CH 1/16W	114		
	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2		R31034	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	!	
	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1.2		R31035	ERJ3GEYJ154	M. RESISTOR CH 1/16W	150K		
	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	-			ERJ3RBD102	M. RESISTOR CH 1/16W	1K	1 4	**************************************
R30923	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R31038	ERJ3RBD122	M. RESISTOR CH 1/16W	1.2K	'	
	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	+ ;		R31039	ERJ3GEYG471	M. RESISTOR CH 1/16W	470	1 !	
R30925	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47			R31040	ERJ3GEYG152	M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W	1.5K		
R30926	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820 M. RESISTOR CH 1/16W 1K	1 ,		R31041 R31042	ERJ3GEYG471 ERJ3GEYG152	ML RESISTOR CH 1/16W	470 1.5K	Ι,	
	ERJ3RBD102 ERJ3GEYJ470	M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 47				ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	2	and the state of t
	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	5	·		ERJ3RBD102	M. RESISTOR CH 1/16W	1K	2	1
R30933	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	li		R31047	ERJ3GEYJ122	M. RESISTOR CH 1/16W	1.2K	1	
R30934	ERJ3RBD331	M. RESISTOR CH 1/16W 330	+;		R31048	ERJ3GEYJ181	M. RESISTOR CH 1/16W	180	1	the second contract of the second
R30935	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1		R31049	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	
R30936	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	was even as a superior of the control of the contro	R31050	ERJ3GEYG152	M. RESISTOR CH 1/16W	1,5K	Ħ	M176 (117)
R30937	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	i	<u> </u>	R31051	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1	1
R30938	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	† i		R31052	ERJ3GEYG152	M. RESISTOR CH 1/16W	1.5K	1	
R30940	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R31053	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	Τí	
	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	2		R31054	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1	
R30943	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		R31055	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	l i	Additional and the second seco
R30944	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1	[R31061	ERJ3RBD102	M. RESISTOR CH 1/16W	1K	1	1
R30945	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	1		R31065	ERJ3RBD332	M. RESISTOR CH 1/16W	3.3K] 1	
R30946	ERJ3RBD102	M. RESISTOR CH 1/16W 1K] 1		R31067	ERJ3RB0102	M. RESISTOR CH 1/16W	1K	1	
R30949	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1		R31071	ERJ3RBD102	M. RESISTOR CH 1/16W	iK] i	1
R30950	ERJ3RBD471	M. RESISTOR CH 1/16W 470	1		R31074	ERJ3RBD332	M. RESISTOR CH 1/16W	3.3K	1	
R30951	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270] 1		R31101	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1],
R30953	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		R31102	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1	
R30954	ERJ3RBD222	M.RESISTOR CH 1/16W 2.2K]]		R31103,04	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	2	
R30955	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1		R31105	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1	Representation of the Committee of the C
R30956	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1		R31106,07	ERJ3RBD222	M. RESISTOR CH 1/16W	2.2K	2	
R30957	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		R31108	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1.1	
R30959	ERJ3RBD473	M. RESISTOR CH 1/16W 47K	1		R31109	ERJ3GEYJ104	M. RESISTOR CH 1/16W	100K	1.1	* HM 10 (11 100 1 100 100) (100 100 100 100 100 100 100 100 100 10
R30960	VRE006607103	M. RESISTOR CH 1/10W TOK	1 !		R31110	ERJ3RBD561	M. RESISTOR CH 1/16W	560	1	
R30962	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	\$4000000000000000000000000000000000000	R31111	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1 1	
R30963	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K			R31112	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1	
	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	2		R31113	ERJ3GEYJ271	M. RESISTOR CH 1/16W	270	1.1	
R30968	ERJ3RBD222	M. RESISTOR CH 1/16W 2.2K	!	<u></u>	R31114	ERJ3RBD102	M. RESISTOR CH 1/16W	1K		n e e e e e e e e e e e e e e e e e e e
R30969	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1.		R31115	VRE006622102	V. RESISTOR CH 1/10W	1K]	
R30970	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	+-:	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	R31116	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1 :	
R30972	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1 ;		R31117	ERJ3RBD561	M. RESISTOR CH 1/16W	560 1K	2	
R30973	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	+ ;			ERJ3RBD102	M. RESISTOR CH 1/16W M. RESISTOR CH 1/16W	470	1 4	
R30976	ERJ3RBD301	M. RESISTOR CH 1/16W 300	1:		R31120	ERJ3R80471 ERJ3R80331	M. RESISTOR CH 1/16W	330		
R30981 R30983	ERJ3RBD301 ERJ3RBD102	M. RESISTOR CH 1/16W 300 M. RESISTOR CH 1/16W 1K	1		R31122 R31123	ERJ3GEY0R00	M. RESISTOR CH 1/16W	330	H	1
R30985	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	+;		R31124	ERJ3RBD101	M. RESISTOR CH 1/16W	100	1	
market or territoria.	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1		R31124	ERJ3RBD471	M. RESISTOR ON 1/16W	470	1	
R30990	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1		R31126	ERJ3GEYG472		4.7K	i	
R30991	ERJ3RBD102	M. RESISTOR CH 1/16W 1K				ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	2	
R30994	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1		R31129	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1 î	
R30996, 97		M. RESISTOR CH 1/16W 680	1 2		R31130	ERJ3RBD473	M. RESISTOR CH 1/16W	47K	Ιi	The second section of the second section second section second section second section second section second section second section second section second section second section second section second section second section second section second section sec
R30998	ERJ3RBD183	M. RESISTOR CH 1/16W 18K	1	· · · · · ·	R31131	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1	
R30999	ERJ3RBD223	M. RESISTOR CH 1/16W 22K	i		R31132	ERJ3GEYG472	and the second s	4.7K	ī	
	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4		R31133	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1	
R31005	ERJ3GEYJ333	M. RESISTOR CH 1/16W 33K	1		R31134	ERJ3GEYG472	M. RESISTOR CH 1/16W	4.7K	1	
	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	4		R31136	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1	The state of the s
R31010	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M	11	11	R31137	ERJ3GEYG822	M. RESISTOR CH 1/16W	8.2K	1	
R31011	ERJ3GEYJ681	M. RESISTOR CH 1/16W 680	1	[· · · · · · · · · · · · · · · · · · ·	R31138	ERJ3GEYJ220	M. RESISTOR CH 1/16W	22	1	I
R31012	ERJ3RBD912	M. RESISTOR CH 1/16W 9.1K	1		R31139	ERJ3GEYJ123	M. RESISTOR CH 1/16W	12K	1	
R31013	ERJ3R80102	M. RESISTOR CH 1/16W 1K	1		R31140	ERJ3GEYJ473	M.RESISTOR CH 1/16W	47K	1	and the state of t
R31014	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		R31141,42	ERJ3GEYJ222	M. RESISTOR CH 1/16W	2.2K	2	
R31017	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	11	R31201-03	ERJ3RBD103	M.RESISTOR CH 1/16W	10K	3	
R31018	ERJ3RBD472	M. RESISTOR CH 1/16W 4.7K	[]		R31204~08	ERJ3RBD101	M.RESISTOR CH 1/16W	100	5	
R31019	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	1	.	R31210-14	ERJ3RBD101	M. RESISTOR CH 1/16W	100	5	
R31020	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1		R31216-25	ERJ3RBD101	M.RESISTOR CH 1/16W	100	10	CONTRACTOR OF THE CONTRACTOR O
R31021	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1		R31226	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	
R31022	ERJ3GEYJ181	M.RESISTOR CH 1/16W 180	1	L	R31227	ERDS2TJ101	C.RESISTOR 1/4W	100	1	
R31023, 24	ERJ3RBD102	M. RESISTOR CH 1/16W 1K	2	l						
R31025	ERJ3RBD122	M. RESISTOR CH 1/16W 1.2K	1]["	TH31001	ERTD2FHL102S	THERMISTOR	1K	1	
R31026	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1			,,,	THE THE PERSON NAMED TO BE THE PERSON OF THE	,		
R31027	ERJ3RBD821	M. RESISTOR CH 1/16W 820	1		TP30201	EYF6CU	TEST POINT		1	
R31028	ERJ3GEYJ154	M. RESISTOR CH 1/16W 150K	1	[TP30401	EYF6CU	TEST POINT		1	and the same of the same
	1		1	11			F.		1	1

Ref.No.	Part No.	Part Name & DescriptionPo	cs	Remarks	Ref.No.	Part No.	Part Name & Desc	ription	Pes	Remarks
TP30501-03		TEST POINT	3		C40117	ECEV1CV2200	E. CAPACITOR CH 16V	220	1	
TP30601-0	Part 1 182 1 182 1 182 1 1 1 1 1 1 1 1 1 1 1	TEST POINT	7		C40118	ECEV1CV1000	E. CAPACITOR CH 16V	100	1	
	EYF6CU	TEST POINT	1	1	C40119	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	1	1
TP30801,02		TEST POINT	2		C40120	ECEVOJV3300	E. CAPACITOR CHG. 3V	33U	1	
		TEST POINT	1	1	C40121	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. 1U	1	· ·
	EYF6CU	an experience of the second se				ECUX1H330JCV	C. CAPACITOR CH 50V	33P	2	
	EYF6CU	TEST POINT				ECEVICV1000	E. CAPACITOR CH 16V	100	2	the second of th
TP31101	EYF6CU	TEST POINT	4	ł				0.10	2	
				A STATE OF THE STA		ECUX1E104ZFV	C. CAPACITOR CH 25V		1 1	
VC31101	VCV0050	TRIMMER	1		C40130	ECHU1H472JB	P. CAPACITOR 50V	4700P	!	
					C40131	ECUX1H330JCV	C. CAPACITOR CH 50V	33P	1	
VR30401, 02	EVM7JGA00B13	V. RESISTOR 1K	2		C40132	ECUX1H561JCV	C. CAPACITOR CH 50V	560P	1	
VR30501-03	EVM7JGA00B53	V.RESISTOR 5K	3		C40133	ECUX1H101JCV	C. CAPACITOR CH 50V	100P	1	I a second
VR30504-06	EVM7JGA00B13	V. RESISTOR 1K	3		C40134	ECUX1H182KBV	C. CAPACITOR CH 50V	1800P	1	
VR30507-09	EVM7JGA00B53	V. RESISTOR 5K	3		C40135, 36	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	2	4
VR30601	EVM7JGA00B14	V. RESISTOR 10K	1	1	C40137	ECEVICN1000	E. CAPACITOR CH 16V	100	1	
VR30602	EVM7JGA00B13	V. RESISTOR 1K	1		C40138	ECEV1CV2200	E. CAPACITOR CH 16V	220	1	
VR30603	EVM7JGA00B53	V. RESISTOR 5K	1		C40139	ECEVICV1000	E. CAPACITOR CH 16V	100	1	
		1 - 1			C40140	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	1	
VR30604	EVM7JGA00B13				C40141	ECEVOJV3300	E. CAPACITOR CH6. 3V	33U	1	
VR30801	EVM7JGA00B53		- !}-	1	1		C. CAPACITOR CH 25V	0. 1U		
VR30802	EVM7JGA00B52	V. RESISTOR 500			C40142	ECUX1E104ZFV	and the second s		-	
VR30803	EVM7JGA00B14	V. RESISTOR 10K			C40143, 44		C. CAPACITOR CH 50V	33P	1 :	
VR30804, 0	EVM7JGA00B13	V. RESISTOR 1K	2		C40201	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	1	\$10,10,100 to 111 milestation 1 100,1110, 100,1110
VR30806	EVM7JGA00B15	V. RESISTOR 100K	1		C40202	ECEVICN1000	E. CAPACITOR CH 16V	100	1 !	
VR30901	EVM7JGA00B23	V. RESISTOR 2K	1		C40203	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	1	
	EVM7JGA00B23	V. RESISTOR 2K	2	1	C40206	ECENONA3300	E. CAPACITOR CH6. 3V	33U	1.3	
VR30906	EVM7JGA00B13	V. RESISTOR 1K	1		C40207,08	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	1 2	2
	EVM7JGA00B53	V. RESISTOR 5K	2		C40209	ECEVICV1000	E. CAPACITOR CH 16V	100		1
VR30910	EVM7JGA00B52	V. RESISTOR 500	-71	* * * * * *	C40211	ECEVICV1000	E. CAPACITOR CH 16V	100		11
VR31001	EVM7JGA00B32	V. RESISTOR 20K		HATTO CONTRACTOR AND THE STATE OF THE STATE	C40212	ECUX1H221JCV	C. CAPACITOR CH 50V	220P		
		1		1	C40213-16	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. IU		4
VR31002	EVM7JGA00B52	V. RESISTOR 500	- 11					1000	-	
VR31101	EVM7JGA00B52	V. RESISTOR 500	-11		C40217	ECEVOJV1010	E. CAPACITOR CH6. 3V	1.1.1.411	1	
VR31102	EVM7JGA00B13	V. RESISTOR 1K	1	I	C40218	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	-	
					C40219	ECEVICN1000	E. CAPACITOR CH 16V	100	-	1
X30601	VSX0338	CRYSTAL OSCILLATOR	- 1	. 1	C40220	ECUX1H103KBV	C. CAPACITOR CH 50V			
					C40221	ECUX1H221JCV	C. CAPACITOR CH 50V	220P		1
		MISCELLANEOUS			C40222-24	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10		3
	1				C40225	ECEV1CV4700	E. CAPACITOR CH 16V	47U		
	XYN2+J6	SCREW	2		C40226	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	1	1
				The second state of the second	C40230	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.1U	1	1
		1		i	C40231	ECEVICV4700	E. CAPACITOR CH 16V	47U	1	il .
		<u> </u>	- 1		C40232	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10		1
					C40236	ECUX1E104ZFV	C. CAPACITOR CH 25V		1	11
	-	1			C40237	ECHU1H472JB	P. CAPACITOR 50V			1
=	VED047274	AUDIO B C BOARD	1 / 0	RTL)	C40238	ECEVICN1000	E. CAPACITOR CH 16V		+	1
■ E7	VEP04737A	AUDIO P.C.BOARD	11'	112/	C40239	ECHU1H472JB	P. CAPACITOR 50V		1	il
							E. CAPACITOR CH 16V		1	1
					C40240	ECEVICNIO00	A STATE OF THE PARTY OF THE PAR	*****************	+ .	1
C40031	ECEVOJV3300	E. CAPACITOR CH6. 3V 33U	1		C40241	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.70.90	1	1
C40032,33	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C40243, 44		C. CAPACITOR CH 25V			4
C40034	ECEV0JV330Q	E. CAPACITOR CH6. 3V 33U	1		C40245	ECEV1CV4700	E. CAPACITOR CH 16V		1.	
C40049,50	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C40246, 47	ECUX1E104ZFV	C. CAPACITOR CH 25V	e servenene e como	13	2
C40051	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1		C40248	ECEVICV470Q	E. CAPACITOR CH 16V		1	
C40052,53	the country of the country of the country of	C. CAPACITOR CH 25V 0.1U	2		C40301	ECEVICN1000	E. CAPACITOR CH 16V	100		4
C40054	ECEV1CV4700	E. CAPACITOR CH 16V 47U	1		C40302, 03	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. 1U	1 :	2
C40055	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	C40304.05	ECEV1CN1000	E. CAPACITOR CH 16V	100		2
C40068	ECEV1EV4R7Q	E. CAPACITOR CH 25V 4.7U	1		C40306, 07	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. IU		2
C40069	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C40308	ECEVICN1000	E. CAPACITOR CH 16V	H M H H H H H H H H H H		1
C40070		E. CAPACITOR CH 16V 10U	1		C40311	ECEV1CV2200	E. CAPACITOR CH 16V		1	1
	ECEVICVIOOQ	1 1	2			ECEVICV4700	E. CAPACITOR CH 16V			2
C40071,72		C. CAPACITOR CH 25V 0.1U			** - 1 **	ECUX1E104ZFV	C. CAPACITOR CH 25V		+	2
C40073	ECEV1CV1000	E. CAPACITOR CH 16V 10U			1				1	1
C40074	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	- 1		C40316	ECEVOJV3300	E. CAPACITOR CH6. 3V		-	
C40093	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1			ECUX1E104ZFV	C. CAPACITOR CH 25V	9 10 11 11	1	<u> </u>
C40094	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		C40319	ECEVO JV3300	E. CAPACITOR CH6. 3V			1
C40095	ECEV1CN1000	E. CAPACITOR CH 16V 10U	1	we represented the ARM Transportation to be the	C40320, 21	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10		2
C40096	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1	1	C40322	ECEV1CV1000	E. CAPACITOR CH 16V	100		1]
C40097	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	1	C40324	ECEVICV1000	E. CAPACITOR CH 16V	100	1	1
C40098	ECEVICN1000	E. CAPACITOR CH 16V 10U	i		C40326, 27	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	1 :	2
C40101-04		C. CAPACITOR CH 25V 0.1U	4			ECEVICV1000	E. CAPACITOR CH 16V		1 :	2
C40106, 07		C. CAPACITOR CH 25V 0.1U	2			ECUX1E104ZFV	C. CAPACITOR CH 25V			2
			1	Microsoft Control of the Control of		ECEVICV1000	E. CAPACITOR CH 16V		1	2
C40109	ECHU1H472JB	P. CAPACITOR 50V 4700P								-
C40110	ECUX1H330JCV	C. CAPACITOR CH 50V 33P			the second secon	ECEVIEVIONO	E. CAPACITOR CH 50V			
C40111	ECUX1H561JCV	C. CAPACITOR CH 50V 560P	4			ECEV1CV1000	E. CAPACITOR CH 16V	Barrer		
C40112	ECUX1H101JCV	C. CAPACITOR CH 50V 100P	1	l		ECUX1E104ZFV	C. CAPACITOR CH 25V			4
C40113	ECUX1H182KBV	C. CAPACITOR CH 50V 1800P	1	The second section of the second seco	C40502	ECUX1H103KBV	C. CAPACITOR CH 50V		1	
C40114,15	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	2		C40503	ECEVOJV3300	E. CAPACITOR CH6.3V	330		1
C40116	ECEVICN1000	E. CAPACITOR CH 16V 10U	1		C40504	ECUX1E104ZFV	C. CAPACITOR CH 25V	0, 10	1	1
	1						1			
		All the second of the second o		and the second s	1	1	The second second		1	The second process of the second second second second

t.40505-10 H	Part No.	Part Name & Description	,cs	Remarks	Ref. No.	Part No.	Part Name & Description	nl'e	s Remarks
		C. CAPACITOR CHE 3V 33H	6		C42408	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U		1
	ECEVOJV3300 ECUX1E104ZFV	E. CAPACITOR CH6.3V 33U C. CAPACITOR CH 25V 0.1U		1	D40201	MA 1 40WA	PLODE		,
		E. CAPACITOR CH6. 3V 33U	4		D40301	MA142WA	DIODE		
		C. CAPACITOR CH 25V 0.1U	,		D40302 D40303, 04	MA147	DIODE		
		E, CAPACITOR CH6, 3V 33U	4		D40303, 04 D40305, 06		DIODE		2
	ECST1CD476Z	T. CAPACITOR CH 16V 47U	-1		D40303,06	MA142K	DIODE	1	
4.74	ECUX1C105KBM	C. CAPACITOR CH 16V 1U			D40501-03	1	DIODE		3
	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	i		D40504	MA142WK	DIODE		1
		C. CAPACITOR CH 50V 1000P	il	* *	D40505	MA128	DIODE		1
		E. CAPACITOR CH 16V 47U	il		D40602,03		DIODE	1	2
		P. CAPACITOR 100V 6800P	2					1	
and the second second	the state of the s	C. CAPACITOR CH 50V 220P	1		FL40508_0	VLF0941C223	FILTER	1	2
		E. CAPACITOR CH6. 3V 10U	il		FL40601	EIR70F012B	TRANSFORMER	+ :	1
to the second		C. CAPACITOR CH 50V 39P	-1		FL40701	VLF1069	FILTER	1.	1
	the state of the s	C. CAPACITOR CH 25V 0.047U	-1		FL42401	VLF0941C223	FILTER		1
		C. CAPACITOR CH 50V 0.027U	1					1	in the second of the second
		C. CAPACITOR CH 50V 8200P	-1	· 11	1C40002	XC62AP5002M	ic i	.	1
		C. CAPACITOR CH 25V 0.1U	2	Down To State (Section 1984) and a State 1984 State 1984 State (Section 1984) by the company of the control of	IC40005	NJM79L09UA	lic	1	1
management with the control of	AT THE STREET OF THE STREET, STREET	E. CAPACITOR CH6. 3V 10U		· · · · · · · · · · · · · · · · · · ·	1C40006	NJM78L09UA	ic	-	1
	market market and the contract of the	C. CAPACITOR CH 50V 2200P	1		1C40010	AK5340VS	IC	1	1
	VCC0030	C. CAPACITOR	1		IC40011	TVHC541FT	IC	1	1
		C. CAPACITOR CH 50V 150P	1	1	IC40016, 1		IC	1 :	2
	M1.202.01.01.01.01.00.01.01.01.01.01.01.01.01.	E. CAPACITOR CH 16V 47U	1			TA75W558FU	IC	1	4
C40629	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1		IC40022	NJM062V	ic	1	1
C40630	ECST1CD476Z	T. CAPACITOR CH 16V 47U	1		IC40023	TA75W558FU	1C	1	1
C40631	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1		IC40024	NJM062V	ic	15	1
C40632	ECUX1H223KBN	C. CAPACITOR CH 50V 0.22U	1		IC40025	TA75W558FU	ıc	1	ı†
C40633	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	A TOTAL CONTRACTOR OF THE PROPERTY OF THE PROP	1C40201	XC62AP5002M	IC	1	I
C40634	ECEV1CV470Q	E. CAPACITOR CH 16V 47U	1	1	IC40202	AK4320VM	IC	1	ı
C40635,36	ECHS1682JZ	P. CAPACITOR 100V 6800P	2		IC40203	TVHC541FT	ic] 1	il
C40701 -03	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3		1040204,0	TA75W558FU	ic	1 2	2
	ECEV1CV1000	E. CAPACITOR CH 16V 10U	1		IC40210	NJM78L09UA	IC] 1	ıl .
· · · · · · · · · · · · · · · · · · ·		C. CAPACITOR CH 16V 1U	1		IC40211	NJM79L09UA	IC	1	I
		E. CAPACITOR CH 16V 22U	1	kanaabaa aa	1C40301	MC14053BDT	ıc] 1	1
	*****************************	C. CAPACITOR CH 25V 0.1U	1		1040302,0	UPD4052BG	IC	2	2
		E. CAPACITOR CH6. 3V 47U	1		a man	TA75W558FU	IC	3	3
		T. CAPACITOR CH 35V 0.1U	1		IC40307	XC62AP5002M	IC	1	
- 17 COMM POST AND		C. CAPACITOR CH 16V 1U			1C40308	XC62DN5002M	IC	1	
		C. CAPACITOR CH 25V 0.1U	1		IC40309-1	TA75W558FU	IC	3	3
		C. CAPACITOR CH 50V 33P	1		IC40312	BA6138F	IC .	1.1	J
		C. CAPACITOR CH 25V 0.1U	2		IC40502	LVX32450SC	l i c	1	
		C. CAPACITOR CH 50V 0.01U	2			TVHT541FT	110	2	
		C. CAPACITOR CH 16V 1U	2		1040506	TVHC139FT	IC	1	
		E. CAPACITOR CH 16V 10U	- 1		IC40507	UPD71055GB	IC	1	
		C. CAPACITOR CH 25V 0.1U	4	w.c	1040508	TC7SH04FU	lic .	1 1	
		P. CAPACITOR 50V 0, 068U C. CAPACITOR CH 25V 0, 1U	2			UP071055GB	IC .	2]
		C. CAPACITOR CH 25V 0.1U C. CAPACITOR CH 16V 1U	4			XC62AP5002P	IC	┼ !	· · · · · · · · · · · · · · · · · · ·
		C. CAPACITOR CH 16V 0.1U	,			TA75W558FU CXA1552M		1!	-
		C. CAPACITOR CH 25V 0.10	1			MC14053BDT	[IC	1	
		C. CAPACITOR CH 16V 10	2			NJM062V	IIG	+ :	
	er og men artisent som er og er	C. CAPACITOR CH 16V 1U	1			TA75W558FU	10		
		C. CAPACITOR CH 25V 0.1U	2		IC40704-07	XC62AP3002P	IC	4	
COMMERCIAL ACTION OF THE		E. CAPACITOR CH6. 3V 33U	i			NJM78L09UA	lic	;	
ent of the transfer of the comment		C. CAPACITOR CH 25V 0.1U	2		IC42001-03	or open a sensor control of the country of the con-	IC	3	
		E. CAPACITOR CH 16V 47U	1		1C42001-0.		IC	1 3	
		C. CAPACITOR CH 25V 0.1U	6		IC42004, 0.	TC7SH04FU	IC	1	
		C. CAPACITOR CH 50V 22P	2	A	*************************	XC62AP5002P	IC	,	
time acres a discussion of		C. CAPACITOR CH 25V 0.1U	2			TVHC541FT	IC	1 1	
		E. CAPACITOR CH6. 3V 33U	1			T16GH7AF1216	ic	1	
E		C. CAPACITOR CH 25V 0.1U	2			K6256DLG7L	IC	2	
		E, CAPACITOR CH6. 3V 33U	1	·		AD1893JST	IC	1	
		C. CAPACITOR CH 25V 0.1U	1			TVHC157FT	IC	1	
	4.4	C, CAPACITOR CH 50V 18P	2			XC62AP5002P	10	1	
			10			MC4044M	ic	1 1	
		E. CAPACITOR CHG. 3V 33U	1			74AC04SJ	IC	1	
		C. CAPACITOR CH 25V 0.1U	2			T74VHC74F	IC	1	
C42304, 05 E		E. CAPACITOR CH 50V 0.1U	2			TVHT541FT	IC	ī	
	1	E. CAPACITOR CH6. 3V 33U	1			HD151015	IC	1 1	
		C. CAPACITOR CH 25V 0.1U	i		IC42403, 04		IC	2	
A SHE CANADA A A A A A A A A A A A A A A A A A		C. CAPACITOR CH 50V 47P	1	· · · · · · · · · · · · · · · · · · ·		TVHC138FT	IC	1	
- 1		C. CAPACITOR CH 25V 0.1U	2					ľ	
		C. CAPACITOR CH 25V 0.1U	6		L40001	VL00163J100	COIL 100H	1	
4		E. CAPACITOR CH6. 3V 33U	1				COIL 10UH	1	
C42407 E			1.			44		()	1

Ref. No. L40202, 03	Part No.	Part Name & Description	Pcs	Remarks	Ref.No.	Part No.	Part Name & Desc	ription	ı 'c	s Remarks
1 40/20/2 0.3	VL00319K101	COIL 100UH	2		R40109	ERJ3RBD102	M. RESISTOR CH 1/16W	1K		
L40602	VL00423J472	COIL 4700UH	1		R40110	ERJ3GEYJ105	M. RESISTOR CH 1/16W	111		
L40604	VL00651K391	COIL 390UH	1		R40111, 12	ERJ3RBD153	M. RESISTOR CH 1/16W	15K		
L40004	TEGORGINGS:	33031	 	\$ 100 years \$ 100	R40113	ERJ3RBD472	M. RESISTOR CH 1/16W			
D41001	W ID40040160	CONNECTOR (MALE)	l ,	to extend	R40114	ERJ3RBD103	M. RESISTOR CH 1/16W			
P41001	VJP40640160		!			ERJ3RBD472	M. RESISTOR CH 1/16W		1	
P41002	VJP3125B009	CONNECTOR (MALE)	'		,		M. RESISTOR CH 1/16W		-	1
			١.		R40118	ERJ3RBD331			1.	
040003,04	2SD1979	TRANSISTOR	2			ERJ3RBD103	M. RESISTOR CH 1/16W		-	
040201.02	2SD1979	TRANSISTOR	2			ERJ3GEYG472	M. RESISTOR CH 1/16%	carrier arms to the		
040301,02	2SD1979	TRANSISTOR	2		R40123	ERJ3GEYJ103	M. RESISTOR CH 1/16W		1	
040304-06	2SB1219A-R	TRANSISTOR	3		R40124	ERJ3GEYJ100	M. RESISTOR CH 1/16W	10		
Q40307-10	2SD1979	TRANSISTOR	4		R40125-27	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K		3
040311	2SB1219A-R	TRANSISTOR	l i		R40128	ERJ3GEYJ331	M. RESISTOR CH 1/16W	330	1	
040604	2SB779-R	TRANSISTOR	1		R40129	ERJ3GEYJ104	M. RESISTOR CH 1/16%	100K		1
040605	2SD874-R	TRANSISTOR	1 1	1 1	R40130	ERJ3RBD102	M. RESISTOR CH 1/16W	I IK	1	
040606	2SD1819A-R	TRANSISTOR	1		R40131	ERJ3RBD103	M. RESISTOR CH 1/16W	10K	1	1
040607-09		TRANSISTOR	1 3		R40132	ERJ3GEYJ683	M. RESISTOR CH 1/16W	49-140-1		1
		and the second s	1		R40133	ERJ3RBD102	M. RESISTOR CH 1/169	0.00	1.	1
Q40610	2SB1220-R	TRANSISTOR	+ :		R40134	ERJ3GEYJ104	M. RESISTOR CH 1/169			1
040611,12		TRANSISTOR	2		A BOOK CAME A C. F.		A SECURE OF SECU			1
040613	2SB779-R	TRANSISTOR	1.		R40135	ERJ3RBD103	M. RESISTOR CH 1/169			1
040614	2SD1819A-R	TRANSISTOR	1		R40136	ERJ3GEYJ683	M. RESISTOR CH 1/169			
040615	2SD874-R	TRANSISTOR	1		R40137	ERJ3GEYJ331	M. RESISTOR CH 1/16			1
	1	AND IN COLUMN TO THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OW			R40201	ERJ3GEY0R00	M. RESISTOR CH 1/169		1_	
QR40005	UN5213	TRANSISTOR-RESISTOR	1		R40202	ERJ3RBD103	M. RESISTOR CH 1/16	4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	
0R40006	UN5113	TRANSISTOR-RESISTOR	1		R40203	ERJ3GEYJ273	M. RESISTOR CH 1/16	27K	1	1
0R40007	UN5213	TRANSISTOR-RESISTOR	1		R40204	ERJ3R8D472	M. RESISTOR CH 1/16	4.7K		1
QR40008	UN5113	TRANSISTOR-RESISTOR	1		R40205,06	ERJ3RBD473	M. RESISTOR CH 1/161	4 47K		2
0R40201	UN5213	TRANSISTOR-RESISTOR	Ti		R40207	ERJ3RBD472	M. RESISTOR CH 1/161	4.7K		1
0R40202	UN5113	TRANSISTOR-RESISTOR	1		R40208	ERJ3RBD473	M. RESISTOR CH 1/161		1	1
0R40203	UN5213	TRANSISTOR-RESISTOR	1 :			ERJ3RBD473	M. RESISTOR CH 1/16		1	2
***************************************		P. P. C.	1:	and the state of t	R40212	ERJ3RBD472	M. RESISTOR CH 1/16		1	11
QR40204	UN5113	TRANSISTOR-RESISTOR	+-;		R40213	ERJ3GEYJ273	M. RESISTOR CH 1/169		+-	1
0R40205	UN5213	TRANSISTOR-RESISTOR	'	, and the second of the second	R40214	ERJ3RBD473	M. RESISTOR CH 1/16			
QR40301, C		TRANSISTOR-RESISTOR		a dada dada dada da da da da da da da da				arrennen am arrend		1
0R40304	UN5213	TRANSISTOR-RESISTOR	'		R40215	ERJ3RB0103	M. RESISTOR CH 1/16			
0R40602	UN5113	TRANSISTOR-RESISTOR	11		R40216	ERJ3RB0472	M. RESISTOR CH 1/16			[]
QR40603	UN5213	TRANSISTOR-RESISTOR		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R40217	ERJ3RBD473	M. RESISTOR CH 1/16			1
QR40604	UN5113	TRANSISTOR-RESISTOR	!		R40218-21	ERJ3GEY0R00	M. RESISTOR CH 1/16			4
QR40605	UN5213	TRANSISTOR-RESISTOR	1		R40222	ERJ3RB0473	M. RESISTOR CH 1/16		1	1
0R40606	UN5113	TRANSISTOR-RESISTOR] 1		R40223	ERJ3GEYJ104	M. RESISTOR CH 1/16	# 100K		1
QR40701	UN5113	TRANSISTOR-RESISTOR] 1		R40224	ERJ3GEYJ683	M. RESISTOR CH 1/16	N 68K		1
0R40702	UN5213	TRANSISTOR-RESISTOR	1		R40225	ERJ3RBD103	M. RESISTOR CH 1/16	¥ 10K		1
QR40703	UN5113	TRANSISTOR-RESISTOR	1		R40226	ERJ3RBD102	M. RESISTOR CH 1/16	1 1K		1
QR40704	UN5213	TRANSISTOR-RESISTOR	1		R40227	ERJ3RBD222	M. RESISTOR CH 1/16	1 2.2K		1
			-		R40228	ERJ3GEYJ105	M. RESISTOR CH 1/16	N IM		1
B40047_5	B ERJ3GEYOROO	M. RESISTOR CH 1/16W 0	1 -		R40229	ERJ3RBD472	M. RESISTOR CH 1/16	4 1 1 11 11		1
R40055	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0			R40230	ERJ3RBD123	M. RESISTOR CH 1/16		1	11
		M. RESISTOR CH 1/16W 10K			R40231	ERJ3RBD102	M. RESISTOR CH 1/16		-	1
R40061	ERJ3RBD103	The state of the s	1.		R40232	ERJ3GEYJ104	M. RESISTOR CH 1/16			1
R40062	ERJ3RBD682				##					1
	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	13		R40233	ERJ3GEYJ683	M. RESISTOR CH 1/16	with the second	+	9
R40065	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K			R40234	ERJ3RBD103	M. RESISTOR CH 1/16			
R40066	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	11		R40235	ERJ3RBD222	M. RESISTOR CH 1/16		+	
R40075	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	11		R40236	ERJ3RB0102	M. RESISTOR CH 1/16	4 9 9 9 9		
R40077	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0		AND RESIDENCE AN	R40237	ERJ3RBD123	M. RESISTOR CH 1/16	***************************************		1
R40078-8	1 ERJ3R80472	M. RESISTOR CH 1/16W 4.7K	1	·	R40238	ERJ3RBD472	M. RESISTOR CH 1/16		-	1
R40082	ERJ3RB0222	M. RESISTOR CH 1/16W 2.2K] 1		R40239	ERJ3RBD102	M. RESISTOR CH 1/16	W 1K		1
R40083	ERJ3RB0102	M. RESISTOR CH 1/16W 1K	1		R40240, 41	ERJ3RBD223	M. RESISTOR CH 1/16	N 22K		2
R40084	ERJ3GEYJ105	M. RESISTOR CH 1/16W 1M			R40242	ERJ3GEYJ105	M. RESISTOR CH 1/16	W 1M		1}
	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1 :	<u>.</u> [R40243-45	ERJ3GEY0R00	M. RESISTOR CH 1/16	N 0		3
	9 ERJ3RBD103	M. RESISTOR CH 1/16W 10K		3	R40301	ERJ3RBD472	M. RESISTOR CH 1/16	*************	1	1
R40090	ERJ3RBD331	M. RESISTOR CH 1/16W 330			R40302	ERJ3RBD392	M. RESISTOR CH 1/16			1
		The state of the s	1		R40304	ERJ3RBD103	M. RESISTOR CH 1/16		-	1
	ERJ3GEYG472		+:		R40305	ERJ3RBD472	M. RESISTOR CH 1/16		+	il
R40093	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1) · · · · · · · · · · · · · · · · · · ·	19.1	ERJ3RBD392	M. RESISTOR CH 1/16			1
R40094	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10	-		R40306				-	1
R40095~9		M. RESISTOR CH 1/16W 10K	13	<u> </u>	R40308	ERJ3GEYJ103	M. RESISTOR CH 1/16	-		1
R40098	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330			R40315	ERJ3GEY0R00	M. RESISTOR CH 1/16	10.00		
R40099	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0			R40316	ERJ3RBD473	M. RESISTOR CH 1/16			1
R40100	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	1	R40317	ERJ3RBD103	M. RESISTOR CH 1/16			1
R40101	ERJ3GEYJ752	M. RESISTOR CH 1/16W 7.5K			R40318	ERJ3GEYJ105	M. RESISTOR CH 1/16	r 1M		1
R40102	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	T		R40319	ERJ3GEYJ104	M. RESISTOR CH 1/16	N 100K		1
R40103	ERJ3RBD622	M. RESISTOR CH 1/16W 6.2K	1	ı] İ	R40320, 21	ERJ3RBD473	M. RESISTOR CH 1/16	N 47K		2
R40104	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	,†*	R40322	ERJ3GEY0R00	M. RESISTOR CH 1/16			il = "
	ERJ3GEYJ752	M. RESISTOR CH 1/16W 7.5K			R40323	ERJ3RBD103	M. RESISTOR CH 1/16		-	1
R40105		M. RESISTOR CH 1/16W 15K		il 1	R40324	ERJ3GEYJ103	M. RESISTOR CH 1/16			1
R40105		IMPORTATION OF TAXABLE TOUR	1						-	
R40106	ERJ3RBD153	M DECISTOR ON 1/15W E OF	1	ı	B40325	IEB I3GEACTUS	THE BESTSTOR OF TAXES			11
R40106 R40107	ERJ3RBD622	M. RESISTOR CH 1/16W 6.2K			R40325	ERJ3GEYG102	M. RESISTOR CH 1/16			
R40106		M. RESISTOR CH 1/16W 6.2K M. RESISTOR CH 1/16W 2.2K			R40325 R40327	ERJ3GEYG102 ERJ3RBD472	M. RESISTOR CH 1/16			1

Ref. No. R40328	Part No. ERJ3RBD682	Part Name & M. RESISTOR CH			Pes	Remarks	Ref. No.	Part No.	Part Name & Desc		nPc	s Remarks
R40329, 30		M. RESISTOR CH			2		R40705	ERJ3RBD101	M. RESISTOR CH 1/169			1
	ERJ3GEYG102	M. RESISTOR CH	6 1 166 cm m	10K 1K	1			ERJ3RBD472	M. RESISTOR CH 1/169			2
	ERJ3GEYJ103	M. RESISTOR CH		10K	;		R40708	ERJ3RB0102	M. RESISTOR CH 1/16V			
	ERJ3RBD472	M. RESISTOR CH					R40709	ERJ3RBD222	M. RESISTOR CH 1/169		1	;
	ERJ3RBD682	M. RESISTOR CH		6. 8K	1		R40710 R40711	ERJ3RBD102	M. RESISTOR CH 1/169		+	
	ERJ3RBD103	M. RESISTOR CH		10K	;		R40712	ERJ3GEYJ273 ERJ3GEYJ470	M. RESISTOR CH 1/168		-	
	ERJ3GEYJ681	M. RESISTOR CH	and contract	680			R40713	ERJ3GEYJ563	M. RESISTOR CH 1/169			,
	ERJ3GEYJ563	M. RESISTOR CH		56K	1		R40714	ERJ3RBD471	M. RESISTOR CH 1/169		+	1
		M. RESISTOR CH		10K			R40716	ERJ3RBD103	M. RESISTOR CH 1/169 M. RESISTOR CH 1/169			<u> </u>
	ERJ3GEYJ563	M. RESISTOR CH		56K	1		R40717	ERJ3RBD391	M. RESISTOR CH 1/169			1
		M. RESISTOR CH		680	1	***************************************	R40720	ERJ3GEY0R00	M. RESISTOR CH 1/16		+	1
	ERJ3GEYJ103	M. RESISTOR CH	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10K	l i		R40722	ERJ3RBD104	M. RESISTOR CH 1/169		1	1
	ERJ3GEYJ330	M. RESISTOR CH	**************	33	i		R40724	ERJ3RB0242	M. RESISTOR CH 1/169			1
4.4		M. RESISTOR CH		10K	1	•	R40725	ERJ3RBD103	M. RESISTOR CH 1/169			1
	ERJ3GEYJ473	M. RESISTOR CH		47K	1		R40726	ERJ3GEY0R00	M. RESISTOR CH 1/168		1	1
	ERJ3GEYJ473	M. RESISTOR CH		47K	i		R40728	ERJ3GEYJ104	M. RESISTOR CH 1/168		1	1
R40348	ERJ3GEYJ330	M. RESISTOR CH	2 1071 THOMAS	33	ī		R40729	ERJ3RBD103	M. RESISTOR CH 1/168			1
R40349	ERJ3GEYJ103	M. RESISTOR CH	*****	10K	1		R40730	ERJ3GEY0R00	M. RESISTOR CH 1/168		+	1
1 100 1 100 100 100 100 100 100 100 100	ERJ3GEYJ242	M. RESISTOR CH	commence of the second	2.4K	1		R40732	ERJ3GEYJ105	M. RESISTOR CH 1/168		1	1
R40354	ERJ3GEY0R00	M.RESISTOR CH		0	1	**************************************	R40733	ERJ3RBD103	M. RESISTOR CH 1/16%		1	1
R40355	ERJ3GEYG472	M. RESISTOR CH	1/16W	4.7K	1		R40734	ERJ3GEYJ104	M. RESISTOR CH 1/168		1	1
R40356	ERJ3GEYJ242	M. RESISTOR CH	1/16W	2.4K	1		R40735	ERJ3RBD332	M. RESISTOR CH 1/169	1 199 49	1	1
	ERJ3GEYG472	M. RESISTOR CH	1/16W	4.7K	1		R40736	ERJ3RBD222	M. RESISTOR CH 1/169	2.2K	1	1
R40358	ERJ3RBD103	M. RESISTOR CH	1/16W	10K	1	*	R40738	ERJ3GEY0R00	M. RESISTOR CH 1/168		1	1
	ERJ3GEYJ104	M. RESISTOR CH		100K	2	e interestante e en agra canta e e e e e e e e e e e e e e e e e e e	R40739	ERJ3GEYJ104	M. RESISTOR CH 1/169	100K	1	1
MINT N 1981 1 1 1 1 1	ERJ3GEY0R00	M. RESISTOR CH	100 1 100 1	0	1		R40740	ERJ3RBD103	M. RESISTOR CH 1/169	10K		1
	ERJ3GEY0R00	M. RESISTOR CH	ha) 101400	0	2	MICHIGANI CANADA CANADA CANADA MANADA MANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CANADA CA	R42001	ERJ3GEY0R00	M. RESISTOR CH 1/168			1
	ERJ3GEY0R00	M. RESISTOR CH		0	1.1		1.0	ERJ3GEYJ470	M. RESISTOR CH 1/168		10	0
	ERJ3RBD473	M. RESISTOR CH		47K	2			ERJ3R8D331	M. RESISTOR CH 1/169			3
	ERJ3GEY0R00	M. RESISTOR CH		0	2	PR 88 (18 CW 1280 1280 128 120 12 () () () () () () () () () (R42016	ERJ3GEY0R00	M. RESISTOR CH 1/168			1
R40504, 05	ALL THE CHARLES WITHOUT THE ALL THE P.	M. RESISTOR CH		10K	2		and the second second second	ERJ3GEYJ470	M. RESISTOR CH 1/16%		1	2
	ERJ3GEYJ104	M. RESISTOR CH		100K	4	Miller St. of a St. of	R42020	ERJ3RBD331	M. RESISTOR CH 1/16N			1
R40511, 12	and the second second section of the section of the second section of the second section of the second section of the section of the second section of the section of	M. RESISTOR CH		10K	2		R42021	ERJ3GEY0R00	M. RESISTOR CH 1/16%			1
	ERJ3GEYJ104	M. RESISTOR CH		100K	4		R42023	ERJ3GEY0R00	M. RESISTOR CH 1/16N			
	ERJ3GEYG102	M. RESISTOR CH		1K			R42025	ERJ3GEY0R00	M. RESISTOR CH 1/16N			
ALCOHOLOGICA AND COMPANY	ERJ3GEYJ681 ERJ3GEYJ392	M. RESISTOR CH		680 3, 9K		**************************************	R42029	ERJ3RBD331	M. RESISTOR CH 1/16W	* 1		
	ERJ3RBD103	M. RESISTOR CH		3.9K				ERJ3GEY0R00	M. RESISTOR CH 1/16W		1	5
	ERJ3RBD103 ERJ3RBD473	M. RESISTOR CH		47K			R42034-38	ERJ3GEYJ470 ERJ3RB0331	M. RESISTOR CH 1/16W	1 1 1		1
	ERJ3GEYJ390	M. RESISTOR CH		39	1	MIN II I II MIN MIN MIN IN		ERJ3R80331	M. RESISTOR CH 1/16W	DESCRIPTION OF THE PARTY OF THE	-	1
	ERJ3RBD183	M. RESISTOR CH		18K	i		R42105	ERJ3GEY0R00	M. RESISTOR CH 1/16W		1	1
	ERJ3RBD102	M. RESISTOR CH		1K		**	R42106	ERJ3RBD331	M. RESISTOR CH 1/16W			
	ERJ3RBD103	M. RESISTOR CH		10K	1	N. P. T. P. P. P. P. P. P. P. P. P. P. P. P. P.	***************************************	ERJ3GEY0R00	M. RESISTOR CH 1/16W			3
R40619, 20	ERJ3RBD472	M. RESISTOR CH		4.7K	2		The second second	ERJ3RBD331	M. RESISTOR CH 1/16W	4.1	1 2	
R40621	ERJ3RBD473	M. RESISTOR CH	1/16W	47K	1		R42113	ERJ3GEY0R00	M. RESISTOR CH 1/16W	190 DE RES 1980 E	1	
R40622	ERJ3GEYJ470	M. RESISTOR CH	1/16W	47	3		R42114	ERJ3RBD331	M. RESISTOR CH 1/16W	the common of	1	
R40623	ERJ3RBD471	M. RESISTOR CH	1/16W	470	i		R42116	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	
R40624	ERJ3GEYJ124	M.RESISTOR CH	1/16W	120K	1	140-bet (10	R42117	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1	
R40625	ERJ3RBD821	M. RESISTOR CH	1/16W	820	1		R42119, 20	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	2	2
to contract to the most of company and a con-		M. RESISTOR CH	1/16W	10K	1		R42121	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1	L
	1.18 44 - 4	M. RESISTOR CH	100000 00000	220	[]		R42122	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	
	******************************	M. RESISTOR CH		0	1		APPRICATION OF THE PROPERTY OF	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	2	
Mark that a second of the second		M. RESISTOR CH	414 4 10		1		R42301	ERJ3GEYG152	M. RESISTOR CH 1/16W	1.5K	1	14 - To 1
	****	M. RESISTOR CH			_1		R42302	ERJ3GEYJ392	M. RESISTOR CH 1/16W		1	
		M. RESISTOR CH	the death or continue	10K	1		R42303	ERJ3RBD102	M. RESISTOR OH 1/16W		1	was was a second
** ** * * * * * * * * * * * * * * * * *	the second second second second second	M. RESISTOR CH		22K			R42304	ERJ3RBD101	M. RESISTOR CH 1/16W		1	
		M. RESISTOR CH			1			ERJ3RB0103	M. RESISTOR CH 1/16W	*************	2	Market and the state of the sta
		M. RESISTOR CH		1.5K	1	1		ERJ3GEY0R00	M. RESISTOR CH 1/16W		4	
	COMPANIES OF THE PROPERTY OF THE PARTY OF	M. RESISTOR CH		200	- !		R42405	ERJ3RBD331	M. RESISTOR CH 1/16W		1	
		M. RESISTOR CH		10	- !			ERJ3GEY0R00	M. RESISTOR CH 1/16W	a constant access to a	19	
A CONTRACTOR OF THE CONTRACTOR		M. RESISTOR CH		10				ERJ3GEYG332	M. RESISTOR CH 1/16W		16	
************************		M. RESISTOR CH M. RESISTOR CH	*********	680			R42441	ERJ3RBD331	M. RESISTOR CH 1/16W		1	
	4 4	M. RESISTOR CH					R42445	ERJ3GEYG332 ERJ3RBD331	M. RESISTOR CH 1/16W		1	
Action Committee	construction of the first of the	M. RESISTOR CH		10K	-#	Make the Manual Consideration to the same as a second second	1142443	-เกา น ยกาว1	M. RESISTOR CH 1/16W	330	'	
		M. RESISTOR CH		47K	-#		T40601, 02	VI T0729	TRANSFORMER		1	
		M. RESISTOR CH		1	-il		140001,02	-610/23	THE PROPERTY OF THE PERTY OF TH		4	
		M. RESISTOR CH		18K	귀	100000000000000000000000000000000000000	TG40001	EYF6CU	TEST POINT			
		M. RESISTOR CH		39	-,1		1	EYF6CU	TEST POINT			
		M. RESISTOR CH		29	- ;		TG40208	EYF6CU	TEST POINT			
		M. RESISTOR CH	************	18K			1040/01	L11 000	ILOI FUNI			
		M. RESISTOR CH		10K	-,1		TP40003-07	EVERCII	TEST POINT		-	
		M. RESISTOR CH			1		TP40003-07		TEST POINT		,	
		M. RESISTOR CH			긞			EYF6CU	TEST POINT		′,	
.,,,,,,,	31001/2	minediation on	./ IUN	7. (^	-1		1540210	LIFUCU	TEST POINT		'	
T							l		1		I	

			, 1	D 1	D c M	D., M	Dart Name & Dares	ription	D,	Remarks
Ref.No.	Part No.	Part Name & Description	'cs	Remarks	Ref. No.	Part No. ECUXIE104ZFV	Part Name & Desc C.CAPACITOR CH 25V	0.10	2	
TP40301, 02		TEST POINT	2		C5255, 56 C5257-59	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	3	
1	EYF6CU	TEST POINT	- !		C5257-59 C5260	ECUX1C474ZFN	C. CAPACITOR CH 16V		1	
	VJR0098	TEST POINT	1		C5262	ECUX1C474ZFN ECUX1C684KBM	C. CAPACITOR CH 16V	0.680	1	
1	EYF6CU	TEST POINT	2	·	C5262	ECUX1H151JCV	C. CAPACITOR CH 50V	150P	i	
TP40701, 02	and the second of the second	TEST POINT	4		C5265	ECUX1E104KBN	C. CAPACITOR CH 25V	0.10	1	The second secon
TP42102-04		TEST POINT	3		C5267	ECUX1H101JCV	C. CAPACITOR CH 50V	100P	1	
TP42301,02	ETHOLU	TEST POINT	4	· [C5267	ECUX1E104KBN	C. CAPACITOR CH 25V	0.10	1	
	CONT ICACODA	V DECLETOD 10V	2		C5270	ECUX1H680JCV	C. CAPACITOR CH 50V	68P	1	
1		V. RESISTOR 10K	4		C5270 C5273-75	ECUX1E104KBN	C. CAPACITOR CH 25V	0.10	1 3	
	EVM7JGA00B14	V. RESISTOR 10K	4		C5276	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	1	
		V. RESISTOR 10K	4	, and the second second second second	C5277	ECUX1E104KBN	C. CAPACITOR CH 25V	0.10	1	The control of the co
	VRV0161B103	V. RESISTOR 10K 1 V. RESISTOR 50K	1	·	C5278, 79	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	1 2	
VR40601	VRV0161B503	The second secon	-		C5276,73	ECUX1E104KBN	C, CAPACITOR CH 25V	0.1U	1	
VR40602	VRV0161B103		Н		C5281,82	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	1 2	
VR40701	VRV0161B503	V. RESISTOR 50K			C5284	ECUX1H270JCV	C. CAPACITOR CH 50V	27P		Marcon , (1911-199) - CONTROL (1901-1991-1991-1991-1991-1991-1991-1991
V40101	VSYNEID	CRYSTAL OSCILLATOR			C5286	ECUX1H470JCV	C. CAPACITOR CH 50V	47P	1	Company of the control of the contro
X42101	VSX0519	CRYSTAL OSCILLATOR			C5287, 88	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10	1 :	2
X42301	VSX0968	ONIOTAL VIGORLATION			C5290-93	ECUX1E104KBN	C. CAPACITOR CH 25V	0. 1U	1	C. C. C. C. C. C. C. C. C. C. C. C. C. C
1		MISCELLANEOUS			C5294	ECUX1H101JCV	C. CAPACITOR CH 50V	100P		THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO SERVE OF THE
		#130ELLAREOUS			C5296	ECUX1H121JCV	C. CAPACITOR CH 50V	120P		
	VVNO. 16	CCDE#	1	, pr	C5297	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10		NAMES OF THE PROPERTY OF THE P
	XYN2+J6	SCREW	- 5		C5298	ECUX1E104KBN	C. CAPACITOR CH 25V	0.10	1	
	9 ,1,	Hallottille liker i merenemi i stretter er	\vdash		C5299-03	ECUX1E104ZFV	C. CAPACITOR CH 25V	0. 1U		
	· ·		1		C5304	ECUX1H101JCV	C. CAPACITOR CH 50V	100P		
			1		C5305	ECUX1H102JV	C. CAPACITOR CH 50V	1000P	1	A CONTRACTOR OF THE CONTRACTOR
	<u> </u>	and a paper seed to the second	1	No. 1 1 May 200 - O. C. All All Holling Control Control	C5306-09	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10		4
■ E8	VEP05348C	RF P. C. BOARD		(RTL)	C5310	ECUX1E104KBN	C. CAPACITOR CH 25V	0. IU	1	1
■ £8	1000460	III I I O DONIED	† †	A CONTRACTOR OF THE PROPERTY O	C5311-16	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10		6
					C5317	ECUX1H330JCV	C. CAPACITOR CH 50V	33P		
C5005-08	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	and the state of t	C5402-05	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10		4
C5005-08	ECEA1CGE101	E. CAPACITOR 16V 100U		THE RESIDENCE OF THE PERSON NAMED IN STREET	C5406	ECUX1H102JV	C. CAPACITOR CH 50V			1
C5009	ECUX1E104ZFV	C, CAPACITOR CH 25V 0.1U	4		C5407-12	ECUX1E104ZFV	C. CAPACITOR CH 25V		1	6
C5010-13	ECEA1CGE101	E. CAPACITOR 16V 100U	4	***************************************	C5413	ECUX1E104KBN	C. CAPACITOR CH 25V			1
C5018-21	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	4	1 11 19	C5414-16	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10		3
C5016-21	ECEA1CGE101	E. CAPACITOR 16V 100U	1	THE RESERVE OF THE PERSON NAMED IN COLUMN 19 ASSESSMENT OF THE PER	C5417	ECUX1H122KBV	C. CAPACITOR CH 50V			1
C5022	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	1	e manazione dal componenti della componenti della componenti della componenti della componenti della componenti	C5418	ECUX1E104ZFV	C. CAPACITOR CH 25V	0.10		1
C5026	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	[]		C5419	ECUX1H122KBV	C. CAPACITOR CH 50V	1200P		1
C5027	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1		C5420	ECUX1E104KBN	C. CAPACITOR CH 25V			1
C5028-30	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	3		C5421-26	ECUX1E104ZFV	C. CAPACITOR CH 25V			6
C5032	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.10	1		C5427, 28	ECUX1H101JCV	C. CAPACITOR CH 50V			2
C5034, 35	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		C5429	ECUX1E104ZFV	C. CAPACITOR CH 25V			
C5036	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	1	ph 1907-1940) supplies replied to the control of th	C5430	ECUX1H101JCV	C. CAPACITOR CH 50V		1	1
C5037-44	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	8		C5431	ECUX1E104KBN			1	
C5045-48	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	4		C5432	ECUX1H101JCV	C. CAPACITOR CH 50V		-	
C5049-58	ECUX1E104ZFV	C. CAPACITOR CH 25V 0.1U	10	and the same and the same of t	C5433	ECUX1E104KBN				
C5059,60	ECEV1EN4R7Q	E. CAPACITOR CH 25V 4.7U	2		C5434	ECUX1E104ZFV	the state of the s	14 4 76 1 111		4
C5061,62	ECUX1H102KBV	C. CAPACITOR CH 50V 1000P	2	NAMES TO SERVICE OF STREET, AND STREET, AND STREET, AND STREET, AND STREET, AND STREET, AND STREET, AND STREET,	C5435	ECUX1E104KBN	****			3
C5063, 64	ECUX1H121JCV		2		C5436, 37	ECUX1E104ZFV	1. 1. 1. 1712.2 2. 22.			
C5065, 66	ECUX1H150JCV	and the second s	2		C5438	ECUX1H152KBV			-	1
C5067,68	ECUX1E104ZFV	at tottlereduce and are a control of the control of	2		C5439	ECUX1H680JCV			-	1
C5069, 70	ECUX1H102KBV	the second of th	2		C5440	ECUX1E104ZFV	the second of the second of			1
C5071-74	ECUX1E104ZFV	****	4	a, do stratograf a safe ago ago ago ago ago ano a a pada d 1600 a 1600 a 1600 ago a 1600 a	C5441	ECUXIE104KBN				4
C5075, 76	ECEV1EN4R7Q	E. CAPACITOR CH 25V 4.7U	2		C5442	ECUX1H101JCV	4 1 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		-	1
C5077-82	ECUX1E104ZFV	A REPORT OF THE RESIDENCE OF THE PARTY OF TH	6		C5443	ECUX1E104ZFV			-	
C5103,04	ECUX1H220JCV	C. CAPACITOR CH 50V 22P	2	The state of the second control of the secon	C5444	ECUX1E104KBN		and the second of		1
C5105, 06	ECUX1H181JCV	1	2		C5445	ECUX1E104ZFV	The second secon	8 1 10		1
C5107,08	ECUX1H080DCV	a december of the contract of	2	·	C5446	ECUX1E104KBN			-	1
C5109	ECUX1H030CCV		1!		C5447	ECUX1H821JV	C. CAPACITOR CH 50V			1
C5110	ECUX1H150JCV		1!		C5448	ECUX1H101JCV			1	2
C5111	ECUX1H030CCV	and the second s	1.1		C5449-51	ECUX1E104ZFV				1
C5112	ECUX1H150JCV	1			C5452	ECUX1E104KBN			ı	3
C5113, 14	ECUX1H080DCV		2	and the same of th	C5453-55				+	3
C5201-04	ECUX1E104KBN		4		C5457, 58	1	1			1
C5205	ECEV1CV1000	E. CAPACITOR CH 16V 10U	11		C5459	ECUXIHI01JCV		1.00		1
C5206-09	ECUX1E104KBN	and the second control of the second control	4		C5460	ECUX1E104KBN	and an amount of the contract			The same of the sa
C5210	ECEV1CV1000	E. CAPACITOR CH 16V 10U	1		C5461	ECUX1E104ZFV	1			<u> </u>
C5211-16	ECUX1E104ZFV		6	announcement of the first of the state of th	C5462-65				-	1
C5217-20	ECUX1E104KBN		4		C5466	ECUX1E104KBN ECUX1E104ZFV				1
C5221	ECUX1E104ZFV	and the second contradictions of the contradiction	+ 1		C5467				1	1
C5222,23	ECUX1E104KBN		2		C5468	ECUMIC105ZFN ECUX1E104ZFV			-	
C5224, 25	ECUX1E104ZFV	1	1 2		C5469 C5470-77	ECUX1E1042FV				R
C5227	ECUX1E104ZFV		+ '		C5501	ECUX1E104ZFV			-	1
C5251-53	ECUX1E104ZFV		1 3		C5508, 09		1		ĺ	2
C5254	ECUX1H820JCV	C. CAPACITOR CH 50V 82P	1.		\$300,09	LCOX IE IV4ZEV	o. was not from the 239	J. 10	-	
						1			- -	to a service of the s
L	1			l	l		1			

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Ref. No.	Part No.	Part Name & Descrip	_	Pes	Remarks	Ref. No.	Part No.	Part Name & Desc	ription	Pes	Remarks
	ECUX1E104KBN). 10	2		IC5606	TVHC32FT	IC		1	
C5514	ECUX1H101JCV	1	00P	1	·		MC14053BF	IC		4	
	ECUX1E104ZFV). 10	5		IC5611	NJM064V	10		1	
C5520	ECEV01A3300		330	1		IC5612	NJM062M	IC		1	
C5521-26	ECUX1E104ZFV	C. CAPACITOR CH 25V 0). 10	6		105613	NJM064V	IC		1	
C5529	ECUX1E104ZFV	Committee of the commit). IU	1		IC5751	MC74HC4066F	IC		1	
C5533-35	ECUX1E104ZFV	C. CAPACITOR CH 25V 0). IU	3		IC5752	TVHC32FT	ic		1	The second secon
C5601,02	ECUX1E104ZFV	C. CAPACITOR CH 25V 0	. 10	2		IC5753	TCVHCT04F	ıc		1	
C5604	ECUX1E104ZFV	C. CAPACITOR CH 25V 0). 10	1		IC5754	TCVHC74F	IC		1	
C5606-25	ECUX1E104ZFV	1	. 10	20	*	IC5755	TCVHC86F	ic		1	
C5628-30	ECUX1E104ZFV). IU	3		IC5757	TVHC32FT	IC		;	
C5632-40	ECUX1E104ZFV		. 10	9		IC5758	TVHC153FT	ic		'	
C5642	ECUX1E104ZFV	1). 10	1	· 11	105759	TCVHCT04F	ic			1
C5644, 45	ECUX1E104ZFV). 10	2			XC62AP3002P	lic		!	Market control to a send on control to the sense of the s
C5666, 67	ECUX1E104ZFV	the state of the s). 1U	2	İ	105760		1			1
C5672-80	ECUX1E104ZFV	A CONTRACTOR OF THE PARTY OF TH). 1U	2		IC5761	XC62AP3202P	IC		1	
			****	9		IC5762	XC62AP3002P	IC		1	
C5751	ECEV1CV4700	and the second of the second o	47U			IC5763	TC7SH86FU	IC		1	1
C5752	ECEVOJV1010		0 0U	1	***************************************	IC5764	TC7SH08FU	IC		1	ł
a respective management of the second	ECUX1E104ZFV	and the contract of the second contract of the). 10	2							
C5756	ECUX1E104ZFV	the contract of the contract o). 10			L5001-04	VL00163J330	COIL	33UH	4	I
	ECUX1H221JCV		20P	2		L5101-04	VL00163J2R2	COIL	2.2UH	4	
C5759,60	ECUX1E104ZFV	C. CAPACITOR CH 25V 0). 10	2		L5251	VL00163J1R0	COIL	1UH	1	
C5761,62	ECUX1H221JCV	C. CAPACITOR CH 50V 2	20P	2	11	L5252, 53	VL00163J101	COIL	100UH	2	
C5763	ECUX1E104ZFV	C. CAPACITOR CH 25V 0	. 1U	1		L5254	VL00163JR68		0.68UH	1	· · · · · · · · · · · · · · · · · · ·
C5769-74	ECUX1E104ZFV		. 10	6	· · · · · · · · ·	L5255	VL00163JR39		0.39UH	1	
C5775	ECEA1CGE101		000	1		L5256	VL00163JR33	and the second of	0.33UH		
C5776	ECEA1CGE471		170U	1		L5258, 59	VL00163JR39	4	0.330H	1	
	ECEA1CGE101		000	1		L5260	VL00163JR68			1 :	
	ECUX1E104ZFV		. 10	-	THE PROPERTY OF THE PROPERTY O		VLQ0771R10K		0.68UH	<u> </u>	
C5790	ECUX1E104ZFV	the control of annual base on the	i. 10		the state of the s	L5401-07	VEGO//TRIOK	COIL	TUH	1	Ì
ALTER BURNISH STREET	ECEVICV2200		220	!	CONTRACTOR CONTRACTOR	DEGGG	V ID2 45 46000	COMMISSION (NO. 5)			
						P5000	VJP3454B096	CONNECTOR (MALE)		1.1	p
	ECUX1E104ZFV		. 10	. 2		P5001	VJS3900C013	CONNECTOR (FEMALE)		1	
	ECUX1E104ZFV	***************************************	. 10	3		P5201	VJ\$3900C010	CONNECTOR (FEMALE)		1	F1 ,
C5803	ECEA1CGE101	of the state of th	000								
C5804	ECEA1CGE471		70U	1		Q 5001	2SD2402	TRANSISTOR		1	L.,
C5805, 06	ECEA1CGE101		000	2		05002-05	2SB710A-R	TRANSISTOR		4	
C5807-11	ECUX1E104ZFV	C. CAPACITOR CH 25V 0	. 10	5		05006,07	2SC3130	TRANSISTOR	- " " "	2	
**************************************						05008,09	2SA1022-C	TRANSISTOR		2	·
D5001-04	MA152WK	DIODE	. 1	4	The state of the s	05010,11	2SD1979	TRANSISTOR		2	
D5501	MA152K	DIODE	1	-1	11	05012,13	2SC2954	TRANSISTOR		2	i
05751	MA153	DIODE		-1		05014	2SD1979	TRANSISTOR		ī	
		The state of the s			***************************************	05015	2SA1022-C	TRANSISTOR			
FL5001-05	VLF0931	FILTER		5		05016	2SD1979	TRANSISTOR	+	,	
FL5751-59	***************************************	FILTER		9	\$1.55793134396450783-00366-1-1-0-1-2-1-0-1-2-1-0-1-2-1-0-1-2-1-0-1-0	05017	2SA1022-C	TRANSISTOR		;	CONTRACTOR OF THE CONTRACTOR O
				7	·	05018, 19	2SK508-B	TRANSISTOR			
IC5001	MB10HL116PF	lic				05020, 21	2SC2954	TRANSISTOR		5	
	MB10HL131PF	IC		-;		05022, 23	2SD1979	TRANSISTOR		2	
THE BOTTO BUILDING STREET, STREET	MB10HL116PF	lic		-				1 10		2	
***************************************	AN78M08	IC			add add a common or the the the the the tensor of the tens	05024, 25	2SK508-B	TRANSISTOR		2	
Mark 1181	AN79MOSF	ic	-	- #		05026, 27	2SD1979	TRANSISTOR		2	
		CONTRACTOR OF THE PARTY OF THE		-4		05028, 29	2SC2954	TRANSISTOR		2	
	UPC5102GS030	IC		2		05030, 31	2SC3130	TRANSISTOR		. 2	
the first of all the second se	MC1495D	IC		1		05103,04	2SB709A-R	TRANSISTOR	1	2	
	UPC1663G	IC		1		05105-08	2SC3735-B	TRANSISTOR	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4	The state of the s
	NJM1496M	IC		- 1	Ш.,	05201-03	2SB710A-R	TRANSISTOR		3	
**************************************	NJM082BM	IC		1		05204-09	2SD1979	TRANSISTOR		6	
	NJM319V	IC		1		Q5210	2SC2295-C	TRANSISTOR		1	
IC5401	AN3730FA	IC		1		05211	XN6537	TRANSISTOR-RESISTOR		1	
IC5402	TC4S66F	10		-1	- 11	05212	2SC2295-C	TRANSISTOR		1	
IC5403	AN3740FAP	IC		1	}	05251	2SB710A-R	TRANSISTOR		i	AND EARLY AND AND AND AND AND AND AND AND AND AND
R. P. Levis Co., Laborator	TC4S66F	1C	- 1	1	· · · · · · · · · · · · · · · · · · ·	05252	XN5531	TRANSISTOR-RESISTOR	-		
	NJM064V	IC	• • • • • • • • • • • • • • • • • • • •	1		05253	2SB710A-R	TRANSISTOR			
	NJM084M	IC .	· · · · •	1		05254, 55	2SK508K512	TRANSISTOR		- ',	
	NJM082BV	ic		,	11					2	
	UPC1663G	16		-#		05256	2SB710A-R	TRANSISTOR		!	the Bernard Annual Commission of the State of the Commission of th
4	AD9057BRS	ic		- ;]	- 11	05257	XN5531	TRANSISTOR-RESISTOR	1	1	
	to to starter or conser-].	- #		05258	2SB710A-R	TRANSISTOR			
	T74LCX244F	IIC		1		05259-62	2SD1979	TRANSISTOR		4	
	S80727ANDQ	1C		1	- 11	05263,64	2SC3130	TRANSISTOR	1	2	
	TC6326AF	10		1		05265	XN5531	TRANSISTOR-RESISTOR		[1	
	NJM084M	10	I	1		05266,67	2SC3130	TRANSISTOR		2	The state of the s
105509	TVHC32FT	IC		1	- 11	05401	XN5531	TRANSISTOR-RESISTOR		1	
105509	TYTICJZFT		- 1	-1	· · · · · · · · · · · · · · · · · · ·	05402,03	2SC3130	TRANSISTOR	1	2	A Company of the Comp
1C5509 1C5510	MC10H124M	IC								٠.	r and the second
1C5509 1C5510 1C5512	MC10H124M	IC IC	. [il		05404	XN5531	TRANSISTOR_RESISTOR	1	1	
IC5509 IC5510 IC5512 IC5601	MC10H124M	i.		1		05404 05601	XN5531 2SA1022_C	TRANSISTOR-RESISTOR		1	
IC5509 IC5510 IC5512 IC5601 IC5602	MC10H124M TCVHC86F M62370GP	ic ic		1		05601	2SA1022-C	TRANSISTOR		1	20 100 100 100 100 100 100 100 100 100 1
IC5509 IC5510 IC5512 IC5601 IC5602 IC5604	MC10H124M TCVHC86F M62370GP NJM064V	1C 1C		1 1 1		05601 05602	2SA1022-C 2SB710A-R	TRANSISTOR TRANSISTOR		1	
IC5509 IC5510 IC5512 IC5601 IC5602 IC5604	MC10H124M TCVHC86F M62370GP	ic ic		1 1 1		05601	2SA1022-C	TRANSISTOR		1	

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Ref. No.	Part No.	Part Name & DescriptionPcs	Remarks	Ref. No.	Part No.	Part Name & Desci	ription	Pe	Remarks
05752	2SD601A-R	TRANSISTOR 1	THE STATE OF THE S	R5127, 28	ERJ3GEYJ101	MLRESISTOR CH 1/16W	100	1	
								1 .	
05753,54	2SA1022-C	TRANSISTOR 2		R5129-34	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	5	a service control
				R5201	ERJ3GEYJ103	ML RESISTOR CH 1/16W	10K	1 1	
QR5001	UN5215	TRANSISTOR-RESISTOR 1		R5202	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	
QR5002	UN5213	TRANSISTOR-RESISTOR 1	· 1	R5203, 04	ERJ3GEYJ100	M. RESISTOR CH 1/16W	10	1 2	
QR5003	UN5114	TRANSISTOR-RESISTOR 1		R5205	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	
QR5004-06	and the same of the same of the same of	TRANSISTOR_RESISTOR 3		R5206	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	
	l					1		1	
QR5101,02	UN5215	TRANSISTOR-RESISTOR 2		R5207	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1 '	,
QR5751,52	UN2215R	TRANSISTOR-RESISTOR 2		R5208	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	<u> </u>
	·		· ·	R5209-12	ERJ3GEYJ122	M. RESISTOR CH 1/16W	1.2K	1 4	
R5001,02	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 2		R5213, 14	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1 2	
				R5215, 16	ERJ3GEYJ122	M. RESISTOR CH 1/16W	1.2K		
R5003, 04	ERJ3GEYJ103				1			1 4	
R5005	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K 1		R5217, 18	ERJ3GEYG102	MLRESISTOR CH 1/16W	1K	2	
R5006	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K 1	1	R5219, 20	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	2	:
R5007	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K 1	· · · · · · · · · · · · · · · · · · ·	R5221, 22	ERJ3GEYJ222	M. RESISTOR CH 1/16W	2.2K	2	
R5008	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 1		R5223	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1 1	
	ERJ3GEYG471	The second secon	The second secon	R5224	ERJ3GEYJ331	M. RESISTOR CH 1/16W	330	1	
R5009-12					4.15	The second of the second of the second of		13	
R5013	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 1	4	R5226	ERJ3GEYJ560	MLRESISTOR CH 1/16W	56	1!	
R5014, 15	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K 2		R5227	ERJ3GEYJ391	M. RESISTOR CH 1/16W	390		
R5017	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K 1		R5228	ERJ3GEYJ331	M. RESISTOR CH 1/16W	330	1	
R5018, 19	ERJ3GEYG471	M. RESISTOR CH 1/16W 470 2		R5229	ERJ3GEYJ391	M. RESISTOR CH 1/16W	390	1	
R5020, 21	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K 2		R5230-32	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47		
		·			\$ 1.00m Mr. 10.0 Mr. 10.0 M	The same of the sa	a 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	
R5022, 23	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 2	***************************************	R5251	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1.	
R5024	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K 1		R5252, 53	ERJ3GEYJ330	M. RESISTOR CH 1/16W	33	1 3	
R5026,27	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K 2		R5254, 55	ERJ3GEYJ182	M. RESISTOR CH 1/16W	1.8K	1 2	
R5028, 29	ERJ3GEYG332	M. RESISTOR CH 1/16W 3.3K 2		R5256	ERJ3RBD391	M. RESISTOR CH 1/16W	390	1	
R5030	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K 1		R5257	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	
		where we are section to the action of the section o			of the same and			1-	
R5031, 32	ERJ3GEYG471	M. RESISTOR CH 1/16W 470 2		R5258, 59	ERJ3RBD181	M. RESISTOR CH 1/16W	180	1 -	
R5033,34	ERJ3GEYJ560	M. RESISTOR CH 1/16W 56 2		R5260, 61	ERJ3GEYJ221	M. RESISTOR CH 1/16W	220	1 3	
R5035	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100 1		R5262,63	ERJ3RBD103	M. RESISTOR CH 1/16W	10K	2	
R5036-39	ERJ3GEYG471	M. RESISTOR CH 1/16W 470 4		R5264	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	
R5040,41	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K 2		R5265	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	
R5042,43	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K 2		R5266, 67	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1 2	
R5044	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K 1	***************************************	R5268	ERJ3GEYJ330	M. RESISTOR CH 1/16W	33		
R5045, 46	ERJ3GEYJ222			R5269	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	
								:	
R5047	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33 1		R5270	ERJ3GEYJ330	M. RESISTOR CH 1/16W	33	1 .	
R5048	ERJ3GEYJ272	M. RESISTOR CH 1/16W 2.7K 1		R5271, 72	ERJ3GEYG152	M. RESISTOR CH 1/16W	1.5K	. 2	
R5049	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33 1		R5273	ERJ3GEYJ223	M. RESISTOR CH 1/16W	22K	1	
R5050, 51	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K 2		R5274, 75	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	2	
R5052-55	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K 4		R5276	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1 1	
R5056-59	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K 4		R5277,78	ERJ3GEYJ122	M. RESISTOR CH 1/16W	1.2K	1 2	
R5060, 61	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K 2		R5279, 80	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1 3	
		A STATE OF THE STA			#		W- 10-10-01-01-0	1 :	
R5062,63	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820 2		R5281	ERJ3GEYJ122	M. RESISTOR CH 1/16W	1.2K	<u> </u>	
R5064,65	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150 2		R5282	ERJ3RED510	M. RESISTOR CH 1/16W	51	1 1	
R5066,67	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47 2		R5283	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1.1	
R5068,69	ERJ6GEYG182	M. RESISTOR CH 1/10W 1.8K 2		R5284, 85	ERJ3GEYJ122	M. RESISTOR CH 1/16W	1.2K	2	
R5070, 71	ERJ3GEYJ182	M. RESISTOR CH 3/16W 1.8K 2		R5286	ERJ3GEYJ330	M. RESISTOR CH 1/16W	33	1	
R5072,73	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K 2	[R5287	ERJ6GEYG821	MLRESISTOR CH 1/10W	820	1	
R5074, 75	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K 2		R5288	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1 7	
R5076,77	4	A 4 7 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		R5289-92	ERJ3GEYJ470	M. RESISTOR CH 1/16W		10	· · · · · · · · · · · · · · · · · · ·
The continuous process and	ERJ3GEYJ104	The contract of the contract o					47	1 :	
R5078, 79	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220 2		R5293	ERJ3GEYJ330	M. RESISTOR CH 1/16W	33	1.	
R5080,81	ERJ12YJ270	M. RESISTOR CH 1/2W 270 2		R5294	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1 1	
R5082,83	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K 2	 	R5295	ERJ3GEYJ330	MLRESISTOR CH 1/16W	33	1	
R5084,85	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K 2		R5296	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1	
R5086, 87	ERJ3GEYJ151	M. RESISTOR CH 1/16W 150 2	1	R5297	ERJ3GEYJ330	M. RESISTOR CH 1/16W	33	1	1
R5088-90	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K 3		R5298, 99	ERJ3GEYG152	M. RESISTOR CH 1/16W	1.5K	1 2	
the second of the second of				.		•		1 ,	AL
R5091	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820 1		R5300~04	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1 3	1
R5092	ERJ6GEYG152	M. RESISTOR CH 1/10W 1.5K 1		R5305	ERJ3GEYJ821	MLRESISTOR CH 1/16W	820	1	
R5093	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820 1	l l	R530609	ERJ3GEYJ560	M. RESISTOR CH 1/16W	56	4	
R5094, 95	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33 2	1	R5310, 11	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	2	
R5107,08	ERJ3GEYJ392	M. RESISTOR CH 1/16W 3.9K 2		R5312	ERJ3GEYJ330	M. RESISTOR CH 1/16W	33	1	
R5109, 10	ERJ6GEYG222	M. RESISTOR CH 1/10W 2.2K 2		R5313	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1	-
R5111	1			R5314	ERJ3GEYJ181	1	180	1	
	ERJ3GEYJ100					M. RESISTOR CH 1/16W		+ :	
R5112	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K 1		R5315	ERJ3GEYJ392	M. RESISTOR CH 1/16W		1	{
R5113	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K 1		R5316	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1	
R5114	ERJ3GEYJ100	M. RESISTOR CH 1/16W 10 1	[R5317	ERJ3GEYJ122	M. RESISTOR CH 1/16W	1.2K	1	
R5115	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K 1		R5318	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1	
R5116	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K 1	į l	R5319	ERJ3GEYJ331	M. RESISTOR CH 1/16W	330	1	
R5117,18	ERJ8GCYG101	M. RESISTOR CH 1/8W 100 2		R5320	ERJ3GEYJ681	M. RESISTOR CH 1/16W	680	1	
R5119, 20	1			R5321	ERJ3GEYJ391	1 .		1 .	
the second of the second	ERJ8GCYJ680	the second secon		1		M. RESISTOR CH. 1/16W	390	1	
R5121,22	ERJ8GCYG101	M. RESISTOR CH 1/8W 100 2		R5322, 23	ERJ3RBD332	M. RESISTOR CH 1/16W		1 2	
R5123	ERJ3GEYG682	M.RESISTOR CH 1/16W 6.8K 1		R5325	ERJ3GEYJ391	M. RESISTOR CH 1/16W	390	1	
R5124	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K 1		R5326	ERJ3GEYJ122	M. RESISTOR CH 1/16W	1.2K	1	
R5125	ERJ3GEYG682	M. RESISTOR CH 1/16W 6.8K 1		R5327	ERJ3GEYJ470	M. RESISTOR CH 1/16W	47	1	
R5126	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K 1		R5328	ERJ3GEYJ181	M. RESISTOR CH 1/16W	180	1	[
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	L	<u> </u>				I			1

		Part Name & Description	Pes		ef.No.	Part No.	Part Name & Do		-	'cs	Remarks
5329,30	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2			ERJ3GEYG472	M. RESISTOR CH 1/			. 1	
5331	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	1	R5	543	ERJ3GEYJ222	MLRESISTOR CH 1/	16W 2.2	K	1	
5332	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	R5	548	ERJ3RBD332	M. RESISTOR CH 1/	16W 3.3	K	1	
15333	ERJ3GEYJ182	M. RESISTOR CH 1/16W 1.8K	1	R5	549	ERJ3RBD183	M. RESISTOR CH 1/	/16W 18	K	1	
		M. RESISTOR CH 1/16W 68	2	R5	5550	ERJ3GEYJ101	M. RESISTOR CH 1/	/16W 10	0	1	
		M. RESISTOR CH 1/16W 100	4	R5	5552	ERJ3GEYJ101	M. RESISTOR CH 1/	/16W 10	00	1	
		M. RESISTOR CH 1/16W 330	2	R5	5553	ERJ3GEYG332	M. RESISTOR CH 1/	/16W 3.3	K I	1	
	rance and a contract of	M. RESISTOR CH 1/16W 100	1	R5	5557	ERJ3GEYG332	M. RESISTOR CH 1/	/16W 3.3	sk	1	
		M. RESISTOR CH 1/16W 27K	- 1		5559	ERJ3GEYG332	M. RESISTOR CH 1/			1	.,
		M. RESISTOR CH 1/16W 3.9K		the state of the s		ERJ3GEYG471	M. RESISTOR CH 1/		ł	4	
			- ;		5564	ERJ3GEYJ101	M. RESISTOR CH 1/			1	
		M. RESISTOR CH 1/16W 3.9K					M. RESISTOR CH 1/		66	A	
10.0	A CONTRACT OF THE PARTY OF	M. RESISTOR CH 1/16W 100	'	11:		ERJ3GEYJ560			- 1	,	
		M. RESISTOR CH 1/16W 0	1	#	***********	ERJ3GEYJ101	M. RESISTOR CH 1,		00	١.	
25349	ERJ3GEYJ101	M_RESISTOR CH 1/16W 100	1		5571	ERJ3GEYJ470	M. RESISTOR CH 1,		17	i	
35350	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K		and the second of the second of the second of the second	5572	ERJ3GEYJ103	M. RESISTOR CH 1,		Ж	- !	
R5351	ERJ3RBD153	M. RESISTOR CH 1/16W 15K	. 1	R	5573	ERJ3GEY0R00	M. RESISTOR CH 1,		0	1	
R5352	ERJ3RBD682	M. RESISTOR CH 1/16W 6.8K	1	R5	5601-03	ERJ3GEYJ103	M. RESISTOR CH 1,	/16W 10	DK	3	
R5403, 04	ERJ3R80561	M. RESISTOR CH 1/16W 560	2	R	5609-11	ERJ3GEYJ101	M. RESISTOR CH 1,	/16W 10	00	3	
R5407	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	RS	5619	ERJ3RBD103	M. RESISTOR CH 1,	/16W 1	ж	1	
R5409, 10	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2	RS	5621	ERJ3RBD103	M. RESISTOR CH 1,	/16W 1	OK	1	
R5411	ERJ3RBD562	M. RESISTOR CH 1/16W 5.6K	1	R	5622	ERJ3RB0123	MI RESISTOR CH 1.	/16W 1:	2K	1	
	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	ī	R	5623	ERJ3R8D472	M. RESISTOR CH 1,	/16W 4.	7K	1	
	ERJ3GEYJ122	M. RESISTOR CH 1/16W 1.2K	1		5624	ERJ3RBD333	M. RESISTOR CH 1,	/16W 3	3K	i	
R5414	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	1	termental and the second of th	5625	ERJ3GEYJ101	M. RESISTOR CH 1		00	1	
R5415, 16	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	;		5626	ERJ3R80153	M. RESISTOR CH 1		5K	1	
angent takanén a tahu	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1 1		5627	ERJ3RBD332	M. RESISTOR CH 1			1	
R5417			1	programme to the term of the contract of the c	5628	ERJ3GEYJ103	M. RESISTOR CH 1		OK .	1	<u>† </u>
R5418	ERJ3RBD272	M. RESISTOR CH 1/16W 2.7K	Ι.'	A DECK TO A SECOND	5629, 30	ERJ3RBD153	M. RESISTOR CH 1		5K	2	1
R5419	ERJ3RBD332	M. RESISTOR CH 1/16W 3.3K	1.	Marie 100 100 100 100 100 100 100 100 100 10		ERJ3GEYJ103			OK	1	
R5420	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1 !	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5631		M. RESISTOR CH 1	1 1 1			.[
R5421	ERJ3GEYG152	M.RESISTOR CH 1/16W 1.5K	1 1	and the second section of the second section of the	5633-35	ERJ3GEYJ101	M. RESISTOR CH 1		00	1	
R5422, 23	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	2	ALTERNATION OF THE CONTRACTOR	5638, 39	ERJ3R80103	M. RESISTOR CH 1		OK	- 4	
R5424	ERJ3GEYG152	M. RESISTOR CH 1/16W 1.5K	1	the same of the sa	5640	ERJ3R8D472	M. RESISTOR CH 1				
R5426	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	R	5641	ERJ3RBD123	M. RESISTOR CH 1		2K	1 1	
R5427	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47]]	R	5642	ERJ3RBD333	M. RESISTOR CH 1		3K] !	
R5428	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	R	5643	ERJ3R80153	M. RESISTOR CH 1	/16W 1	5K	1	
R5429	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	R	5644	ERJ3RBD332	M. RESISTOR CH 1	/16W 3.	3K		
R5430	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	R	5645, 46	ERJ3RBD153	M. RESISTOR CH 1	/16W 1	5K	1 2	
R5431	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	l ï	R	5647, 48	ERJ3GEYJ101	M. RESISTOR CH 1	/16W 1	00	1 2	2
R5432	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	R	5660	ERJ3GEY0R00	M. RESISTOR CH 1	/16W	0	1	
R5433	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K	li	R	5667	ERJ3GEY0R00	M. RESISTOR CH 1	/16W	0	1	
R5434	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	R	5672	ERJ3GEYJ101	M. RESISTOR CH 1	/16W 1	00	1	
R5435	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	R	5674,75	ERJ3GEYJ101	M. RESISTOR CH 1	/16W 1	00	1	2
R5436	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	1	R	5676	ERJ3GEYJ103	M. RESISTOR CH 1	/16W 1	0K	1	
R5437	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	R	5677	ERJ3GEYG332	M. RESISTOR CH 1	/16W 3.	3K		
R5438	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47			5678	ERJ3GEY0R00	M. RESISTOR CH 1		0	1	ı
R5440	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		5679	ERJ3RBD562	M. RESISTOR CH 1	E (E 11) 10 (E 11)	6K	1 7	
R5441	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1		5680	ERJ3GEYJ103	M. RESISTOR CH 1		OK	17	II
			1	Annual Control of the	5682	ERJ3RBD822	M. RESISTOR CH 1	0.144		.	il
R5442	ERJ3GEYJ222	M. RESISTOR CH 1/16W 2.2K M. RESISTOR CH 1/16W 47		**************************************	15683	ERJ3RBD153	M. RESISTOR CH 1		5K	1	
R5443, 44	ERJ3GEYJ470	The second of th	1 :	I - II	15684	ERJ3GEYJ103	M. RESISTOR CH 1		OK .	2	
R5445	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33		and the second s					00		
R5446	ERJ3GEYJ680	M. RESISTOR CH 1/16W 68	1 :		15685	ERJ3GEYJ101	M. RESISTOR CH 1			1	
R5448	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	the same of the sa	15690	ERJ3GEYJ103	M. RESISTOR CH 1		0K		
R5449	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	11	**************************************	15695	ERJ3GEYJ101	M. RESISTOR CH 1	*****************	00 70	1-	A CONTRACTOR OF THE PROPERTY O
R5450	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	.[-]		15696	ERJ3RBD472	M. RESISTOR CH 1				
R5452	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1 1		15697	ERJ3RB0272	M. RESISTOR CH 1			1.	
R5453	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1.1		15698, 99	ERJ3RBD103	M. RESISTOR CH 1		OK	1.3	
R5454	ERJ3GEYJ224	M. RESISTOR CH 1/16W 220K	1	lan and a little	15700	ERJ3RBD473	M. RESISTOR CH 1	A A .	7K	1	1
R5455	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	R	5701,02	ERJ3GEYJ101	M. RESISTOR CH 1		00	13	2
R5456	ERJ3RED510	M. RESISTOR CH 1/16W 51	1	R	5703,04	ERJ3RBD103	M. RESISTOR CH 1	/16W 1	OK	1 2	2
R5457	ERJ3RED750	M. RESISTOR CH 1/16W 75	1	l R	5705-10	ERJ3GEYJ101	M. RESISTOR CH 1	/16W 1	00	1 6	
R5458	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	l R	15751	ERJ3GEYJ103	M. RESISTOR CH 1	/16W 1	0K		1
R5459	ERJ3RBD822	M. RESISTOR CH 1/16W 8.2K	Ti	R	15752	ERJ3GEYJ683	M. RESISTOR CH 1	/16W 6	8K	1	1
R5460-62	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	3		5753	ERJ3GEYJ104	M. RESISTOR CH 1		OK		
R5463	ERJ3RBD182	M. RESISTOR CH 1/16W 1.8K	1		15754-58	ERJ3GEYJ103	M. RESISTOR CH 1		0K		5
R5466	ERJ3GEYG822	M. RESISTOR CH 1/16W 8.2K	1	1	5760-67	ERJ3GEYJ103	M. RESISTOR CH 1		OΚ	1	3
		M. RESISTOR CH 1/16W 100			5772, 73	ERJ3GEYJ101	M. RESISTOR CH 1		00		2
R5505, 06	ERJ3GEYJ101		1 ,		5774-77	ERJ3GEYJ103	M. RESISTOR CH 1		OK .		
R5510, 11	ERJ3RED360	M. RESISTOR CH 1/16W 36	1 2	1		1 .			00	Ι.	
R5513, 14	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	2		5778	ERJ3GEYJ101	M. RESISTOR CH 1	·		1	
R5515, 16	ERJ3GEYJ331	M. RESISTOR CH 1/16W 330	2	1 11	5779,80	ERJ3GEYJ103	M. RESISTOR CH 1		0K	1	
R5517	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1.1		5781,82	ERJ3GEYJ392	M. RESISTOR CH 1			1.3	
R5518	ERJ3RED510	M. RESISTOR CH 1/16W 51	1		5783-87	ERJ3GEYJ103	M. RESISTOR CH 1		0K	1	·
R5519	ERJ3RBD821	M. RESISTOR CH 1/16W 820	î	R	5788	ERJ3GEYJ392	M. RESISTOR CH 1	/16W 3.	9K	1	1
R5520	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	R	5789	ERJ3GEYJ562	M. RESISTOR CH 1	/16W 5.	6K		
R5531	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	R	5790	ERJ3GEYJ392	M. RESISTOR CH 1	/16W 3.	9K		
	ERJ3GEYJ470	M. RESISTOR CH 1/16W 47	1	l II R	5791	ERJ3GEYJ562	M. RESISTOR CH 1			1	1
R5534				1		4	. 4			4	

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	Ref. No.	Part No.	Part Name & Description	,ca	Remarks	Ref.No.		Part Name & Desc		res	Remarks
Г	R5792	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1		C60014	ECUX1H101JCV	C. CAPACITOR CH 50V	100P	1	The second secon
	R5793-95	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	3		C60015~17	ECUX1H103KBV	C. CAPACITOR CH 50V	0.010	3	
1			M. RESISTOR CH 1/16W 0	-1		C60018	ECUX1H101JCV	C. CAPACITOR CH 50V	100P	1	i
ļ				-;		C60019		C. CAPACITOR CH 50V	0.010	1	
1	- 1	and the second s	M. RESISTOR CH 1/16W 10K	-1	· •				47U	١,	
l	R5798, 99	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	2				E. CAPACITOR CH6. 3V		'	
	R5800-02	ERJ3GEYJ103	MLRESISTOR CH 1/16W 10K	3		C60021-27	ECUX1H103KBV	C. CAPACITOR CH 50V		7	
	R5803	ERDS2TJ390	C.RESISTOR 1/4W 39	1		C60029, 30	ECUX1H103KBV	C. CAPACITOR CH 50V	0.010	2	
1		ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	3	i	C60032, 33	ECUX1H101JCV	C. CAPACITOR CH 50V	100P	2	
		ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1		C60034	ECUX1H103KBV	C. CAPACITOR CH 50V	0.010	1	
1	+		1	۱,			1	C. CAPACITOR CH 50V		1 3	The second secon
		ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K					to take the company of the control o		1	
4	R5810-20	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	11	**************************************	C60201		C. CAPACITOR CH 50V			
T						C60202-12		C. CAPACITOR CH 50V	4 4 4 1 7	11	and the second s
	TG5001	EYF6CU	TEST POINT	-1		C60214	ECUX1H103KBV	C. CAPACITOR CH 50V	0.010	1	
		EYF6CU	TEST POINT	1	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C60301-04	ECUX1H103KBV	C. CAPACITOR CH 50V	0.010	1 4	
1		EYF6CU	TEST POINT	-1	1	C60306	ECUX1H103KBV	C. CAPACITOR CH 50V	0.010	1	
	1 11 10 10	and the second s				C60308	,	C, CAPACITOR CH 50V		1	and the second s
-		EYF6CU	TEST POINT	!				and the second of the second o		1 7	The state of the s
-	TG5751	EYF6CU	TEST POINT	- 1	a a a			C. CAPACITOR CH 50V			
1						C60405		E. CAPACITOR CH6.3V	330	1	
ļ	TP5001-04	EYF6CU	TEST POINT	4		C60406	ECUX1E105KBP	C. CAPACITOR CH 25V	10	1	
	TP5101,02	EYF6CU	TEST POINT	2		C60407	VCK0152	C. CAPACITOR			
ŀ	TP5251, 52		TEST POINT	2		C60408,09	ECUX1E104KBN	C. CAPACITOR CH 25V	0. 1U		2
-}-					the form of the second	C60410	Commence and the second	C. CAPACITOR CH 50V		1	
1	TP5401-04		TEST POINT	4			and the second second	C. CAPACITOR CH 50V		1	
1	TP5751,52	W	TEST POINT	2	NAMES OF THE OWNER, TH				******************	-	
T	TP5755-57	EYF6CU	TEST POINT	3		C60603		C. CAPACITOR CH 50V			A THE RESERVE AND A STREET OF THE PERSON OF
	TP5759	EYF6CU	TEST POINT	1		C60604	ECEVOJV470Q	E. CAPACITOR CH6. 3V	47U		
ł	TP5901-08		TEST POINT	8	The same of the sa	C60605	VCK0152	C. CAPACITOR			
ŀ	3001-00		and the second second	ļ	N. Martin Commission Co. Co. Co. Co. Co. Co. Co. Co. Co. Co.	C60606		E. CAPACITOR CH 16V	47U	1	
	MDE 100	WDW0161B500	V DECICTOR	١,		C60607	VCK0152	C. CAPACITOR		1	1
-	VR5402	VRV0161B502	V. RESISTOR 5K		######################################		******************************	************************************	47U	-	
ı						C60608		E. CAPACITOR CH 16V	4/0	-	The second secon
		.	MISCELLANEOUS			C60609	VCK0152	C. CAPACITOR		1-	
- [C60901-12	ECUX1H103KBV	C. CAPACITOR CH 50V	0.010	11	2
ı		VMP5358	P. C. B. ANGLE	2		C60913	ECHU1C104JB	P. CAPACITOR 16V	0.10		11
		XTV3+6FFR	SCREW	2		C60914	ECEV1HV3R3Q	E. CAPACITOR CH 50V	3. 3U		1
ŀ			THE RESERVE THE PROPERTY OF TH	····		C60915	ECEV1CV4700	E. CAPACITOR CH 16V	47U	T	
- 1		1		1		C60916		C. CAPACITOR CH 50V	****	1.	1
- 1						B 10 10 1 1 1 10 10 10	Participation of the second contraction		47U	-	
- 1						C60917	The second section of the second	E. CAPACITOR CH 16V	***************************************		
ı		1			and the second	9	the second of the second	C. CAPACITOR CH 50V	- Aller a service or serve	-	3
- 1						C61001,02	ECEV1CV4700	E. CAPACITOR CH 16V	470	1	2
ľ	■ E9 .	VEP06B93B	RS-232C P. C. BOARD	1	(RTL)	C61003-06	ECUX1H103KBV	C. CAPACITOR CH 50V	0.010		4
			1			C61101	ECUX1H103KBV	C. CAPACITOR CH 50V	0.010	T	1
- 1				·						1	
H		E051111111001	E 010101700 FOV 0 111			D60001,02	NA143	DIODE		+	2
- 1	C6001-05	ECEA1HKAOR1	E. CAPACITOR 50V 0.1U	l °	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						1
				ļ		D60201		DIODE		+	4
ł	IC6001	ADM202JN	IC	1		D60402-05	1	DIODE			4
				l		D60406	MA142WA	D100E			1
- 1	L6001-03	VLP0083	COIL	3		D60407	MA142WK	DIODE			1
ı				1		D60408	MA142K	DIODE			1
- 1	P6001	VJS2582B009	CONNECTOR (FEMALE)	Ιı						1	
ŀ					NO DESCRIPTION OF PROPERTY OF SECURE AND AND AND AND AND AND ASSESSED.	FI 60601_0	VLF0941C223	FILTER		1	31
ļ	P6002	VJS3533	CONNECTOR (FEMALE)	'		1 200001-0	112 03 110223	110101		ŀ	The second secon
						1000000	W21010W210	1.0		+-	1
-	R6001-03	ERDS2TJ100	C. RESISTOR 1/4W 10	3		1060001	M31010M6104H	IC		-	1
ı					, ,	1C60002	S80730ANDT	IC		-	
	TG6005	VJR0098	TEST POINT	1]	1C60003	TVHC14FT	IC		1	
ŀ			The state of the s	T		1C60004	TVHC126FT	IC			1]
	TP6001-04	V.IBOO98	TEST POINT	1 4		1060005	TVHC04FT	ic			1
H		1	A TOTAL STATE OF THE STATE OF T	† '		1060006	TVHC08FT	ic	**********************	1	1
ŀ			MICCELLANEOUS	1		1C60007	TVHC32FT	ic		1-	1
-		-	MISCELLANEOUS			1060007	TVHC74FT	ic		1	1
-				1	**************************************	.,				-	2
-		XSB3+6FZ	SCREW	2		1060009, 1		IC			1
- [VMP5359	OPTION ANGLE	1		1060011	TVHC00FT	IC			I and the second
Ì						IC60013	TC7SH32FU	IC			1
ı				1		IC60101	MBLV80BA12PT	IC			1
- 1			1				KM68V1CL	ıc		1	2
- [-		1C60201	T163G26-1019	1C		+	1
		1	1 .	1		ł	1 2 2				
1				1		1C60202	TVHC14FT	lic			
-	■ E10	VEP06D02A	AV SYSCON P. C. BOARD	1	(RTL)	1C60203	TVHC04FT	IC		1	
.[1C60204	UPC393G2	IC		1	1
- 1						1C60206	TVHC14FT	1C			1]
- 1	C60001	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1		IC60301	LVX32450SC	IC		T	1
- 1		1	· ·	;]		TVHT541FT	ic			3
١	C60002	ECEV1HVR330	E. CAPACITOR CH 50V 0.33U	1 :	∯			ic		-	
- 1	C60003	ECUX1H103KBV	process and the contract of th	1.		1060306	TC7SH08FU			1	
- [C60006	ECUX 1H103KBV	C. CAPACITOR CH 50V 0.01U	1		1060308	TVHC245FT	IC			1
- [C60008-11	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1 4		IC60401	TVHC08FT	IC			1
ı	C60012	ECUX1H101JCV		1		IC60402	MC14538BF	IC		1	1
- [C60013	ECUX1H103KBV		1		1060403	TVHC123FT	ıc		1	1
-1	000013	CON INTO NO	5. 5rd 7151 701 01 301 01 01 01	<u>ا</u> ا				1		1	and the second s
-1				1			· · · · · · ·			1	
Į											

	Part No.	Part Name & Description	,c.	Remarks Ref. No	\rightarrow	Part No.	Part Name &			ľĊ	s Remarks
	MC14538BF	10	!		- +	ERJ3GEY0R00	M. RESISTOR CH		0	2	
1060405	TC7SH32FU	lic		R60220	- 1	ERJ3GEYG102	M. RESISTOR CH		1K]	:
IC60501	TVHC245FT	IC	- '			ERJ3GEYJ473	M. RESISTOR CH		47K	:)
IC60901	TVHC244FT TVHT04FT	IC	1 4	R60226	- 4	ERJ3GEY0R00 ERJ3GEYJ473	M. RESISTOR CH		0		
1060902	TVHC32FT	ic	1:			ERJ3GEYJ103	M. RESISTOR CH		47K 10K	12	-
	TVHC573FT	IC	,			ERJ3GEYJ473	M. RESISTOR CH		47K	1	
	D703003GC017	ic	1	R60243	- 1	ERJ3GEYG102	MLRESISTOR CH		1K	1	
1C60906	TC7SH04FU	10	1			ERJ3GEYJ473	M. RESISTOR CH		47K	-	
1C60907	TVHC04FT	IC	Li	R60247	- 1	ERJ3GEYG102	M. RESISTOR CH		1K	1	
1060908	TVHC139FT	IIC	1			ERJ3GEYJ103	M. RESISTOR CH		10K		
1060909	TL7705CPSB	IC	ti			ERJ3GEYJ473	M. RESISTOR CH		47K	10	1
1061001	IDT71321L55F	lic	1	R60263	- 1	ERJ3GEYJ104	M. RESISTOR CH		100K	1	
IC61002	STK12C68S45	IC	Ιi			ERJ3GEYJ473	M. RESISTOR CH		47K		
IC61003	MBF8TA90PFTS	IC	1	1 11	- 1	ERJ3GEYJ103	M. RESISTOR CH		10K	1 3	
1061101	TVHC126FT	IC	1	R60270	. 4	ERJ3GEYJ473	M. RESISTOR CH		47K	1	
ne erter ertietterte ertenenge			1	eraman eri eraman ann arar eri eri 🚺 🚺 🕶 eri eri eri eri eri eri eri eri eri eri		ERJ3GEY0R00	MLRESISTOR CH		0	1 3	······································
ID60101	VS13138A	ić	i i		- 1	ERJ3GEYJ473	M. RESISTOR CH		47K		
ID61003	VS13139B	IC	1			ERJ3GEYJ101	M. RESISTOR CH		100	3	3
			1	R60309-3	34	ERJ3GEYJ103	M. RESISTOR CH		10K	26	
L60001	VLQ0319K100	COIL 100H	1	the state of the control of the state of the	+	ERJ3GEY0R00	M. RESISTOR CH		0	5	;
L60501-35		COIL	35			ERJ3GEYJ103	M. RESISTOR CH		10K	8	J
L60601	VL00319K100	COIL 10UH	ĺi	The second section of the second section of the second section is a second seco	40.0	ERJ3GEYJ473	M. RESISTOR CH		47K	4	l l
L60901	VLQ0319K100	COIL 100H	1	R60418	*****	ERJ3GEYJ123	M. RESISTOR CH		12K	1	
		The section of the second section with the second section with the second section sect] .	R60419	- 1	ERJ3GEYJ224	M. RESISTOR CH		220K	1	
P60601	VJP40640160	CONNECTOR (MALE)	1	R60420	1.00	ERJ3GEY0R00	M. RESISTOR CH		0	1	
P60801	VJS3791B050	CONNECTOR (FEMALE)	Įή	R60421,2	22	ERJ3GEYJ394	M. RESISTOR CH	1/16W	390K	2	2
P60802	VJS3791B020	CONNECTOR (FEMALE)	1	The second secon		ERJ3GEY0R00	M. RESISTOR CH	15 4 11	0	2	
P60804	VJS3791B020	CONNECTOR (FEMALE)	1	R60503, 0	1	ERJ3GEYJ473	M. RESISTOR CH	1/16W	47K	2)
P61101,02	VJS3406B009	CONNECTOR (FEMALE)	2	R60505-0	07 1	ERJ3GEYJ100	M. RESISTOR CH	1/16W	10	3	
				R60508-1	11 1	ERJ3GEYJ101	M. RESISTOR CH	1/16W	100	4	
QR60001	UN5213	TRANSISTOR-RESISTOR	1	R60512		ERJ3GEYJ100	MI. RESISTOR CH	1/16₩	10	1	
QR60201	UN5213	TRANSISTOR-RESISTOR	1	R60513-2	20 1	ERJ3GEYJ473	M. RESISTOR CH	1/16W	47K	8	
QR60401-2	UN5214	TRANSISTOR-RESISTOR	21	R60603-1	0	ERJ3GEY0R00	M. RESISTOR CH	1/16W	0	8	
				R60901, 0	12	ERJ3GEYJ101	M. RESISTOR CH	1/16W	100	2	!
R60001	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	R60903	-	ERJ3GEYG102	M. RESISTOR CH	1/16W	1K	1	
R60002	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	R60904,0)5	ERJ3GEY0R00	M. RESISTOR CH	1/16W	0	2	
	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	7			ERJ3GEYG332	M. RESISTOR CH	1/16W	3.3K	2	(
R60010	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1.1	The second of th	- 1	ERJ3GEY0R00	M. RESISTOR CH		0	2	
R60011	ERJ3GEY0R00	M.RESISTOR CH 1/16W 0	1	R60911		ERJ3GEYJ473	M. RESISTOR CH		47K	1	
R60013	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	1	R60914		ERJ3GEYJ473	M. RESISTOR CH		47K	1	
	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	.2	R60916	- 1	ERJ3GEY0R00	M. RESISTOR CH		0	1	
R60017	ERJ3GEYJ221	M. RESISTOR CH 1/16W 220	₽!	AMERICAN CONTRACTOR OF THE PROPERTY OF THE PRO		ERJ3GEYJ473	M. RESISTOR CH	***************************************	47K	/	
		M. RESISTOR CH 1/16W 1K	4		- 1	ERJ3GEYJ101	M. RESISTOR CH		100	5	
R60022	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	+ ;	The state of the s		ERJ3GEYOROO	M. RESISTOR CH		0	2	
R60023	ERJ3GEY0R00 ERJ3GEYJ473	M. RESISTOR CH 1/16W 0	₽.;			ERJ3GEYJ473	M. RESISTOR CH		47K		
R60024		M. RESISTOR CH 1/16W 47K M. RESISTOR CH 1/16W 0	1	R60940	- 1	ERJ3GEYOROO	M. RESISTOR CH	1 24	0	!	
R60025	ERJ3GEY0R00	***************************************	1-	MANAGEMENT OF THE PROPERTY OF		ERJ3GEY0R00 ERJ3GEYJ473	M. RESISTOR CH				
CORNER COMMISSION CONTRACTOR	ERJ3GEYJ473 ERJ3GEYJ473	and the second s	2		- 1		M. RESISTOR CH		47K	{	
		M. RESISTOR CH 1/16W 47K M. RESISTOR CH 1/16W 47K	5	R60945			M. RESISTOR CH		0 عجه		
R60035			1	Market Control of the			\$		47K		
We consider the management where the		M. RESISTOR CH 1/16W 1K M. RESISTOR CH 1/16W 47K	-3			ERJ3GEYJ101 ERJ3GEYJ473	M. RESISTOR CH	6 1 1 6 6 7	100 47K	ة	
******************	ERJ3GEYJ473 ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	R61001		ERJ3GEYOROO	M. RESISTOR CH	Ballion + 5 1 - 5 1 10 p - 8 24 4 4	4/8	1	
PRODUCE OF THE RELIGIOUS	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	5	R61002	- +		M. RESISTOR CH		10K	;	
	ERJ3GEY0R00	M. RESISTOR CH 1/16W 4/K	1 6			ERJ3GEYJ473	M. RESISTOR CH		47K	2	
	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	R61005			M. RESISTOR CH		0	1	
ARREST AND THE RESIDENCE AND	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1 ,	R61103	- 4	ERJ3GEYOROO	M. RESISTOR CH		0	,	1
R60064	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	R61104		ERJ3GEYJ473	M. RESISTOR CH		47K	,	Manager Manage
R60065	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	li	R61105	- 1	ERJ3GEYOROO	M. RESISTOR CH		0	1	1
	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3	R61106		ERJ3GEYJ473	M. RESISTOR CH		47K	,	
R60101	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1			ERJ3GEY0R00	M. RESISTOR CH		0	5	
	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	3		- 1	RJ3GEYJ473	M. RESISTOR CH		47K	2	
R60105	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1		T						and the control of th
R60201	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	SW60902	1	/SS0367-04B	SWITCH			1	1
Married a discussion of their	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	2	11	1	***************************************	l				
5 18 MILLION AND ADDRESS AND A	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	TG60001	E	YF6CU	TEST POINT			1	
R60207	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	l i	TG60901	- 4	EYF6CU	TEST POINT			1	1
R60208	ERJ3GEYJ394	M. RESISTOR CH 1/16W 390K	1		1					1	
R60209	ERJ3GEYJ473	M. RESISTOR CH 1/16W 47K	1	TP60001-	O E	YF6CU	TEST POINT			3	1
R60210	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	TP60901-		* * * * * * * * * * * * * * * * * * *	TEST POINT			3	
R60211	ERJ3GEYJ103	M.RESISTOR CH 1/16W 10K	Ĩ	TP61101,			TEST POINT			2	
	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2				1				
R60214	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	VR60001,	041	/RV0161B203	V. RESISTOR		20K	2	The second secon
NOUZ 14	1	i ·	1 .	II '	1						1
R60216	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1 1	- 11	- 1		1			ŀ	

	VSX0833 VSX1034	CRYSTAL OSCILLATOR CRYSTAL OSCILLATOR	1	R729 R731	ERJ6GEYG220 ERJ6GEYG220	M. RESISTOR CH 1/10W 22 M. RESISTOR CH 1/10W 22	1 1	1
	VSX1034	CRYSTAL OSCILLATOR	1		ERJ6GEYG220	JM. RESISTOR CH 1/10W 22	1 1	1]
							1 .	<u>.</u>
		I		R732	ERJ6GEYG682	M. RESISTOR CH 1/10W 6.8K	1	
		MISCELLANEOUS	.	R733, 34	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1 2	4
				R735	ERJ6GEYG682	M. RESISTOR CH 1/10W 6.8K		
	XYN2+J6	SCREW	2	R736, 37	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	2	4
				R738	ERJ6GEYG220	M. RESISTOR CH 1/10W 22		
1				R740 R741	ERJ6GEYG220 ERJ6GEYG682	M. RESISTOR CH 1/10W 22 M. RESISTOR CH 1/10W 6.8K		1
1				R742	ERJ6GEYG470	M. RESISTOR CH 1/10W 4.7		
				R743	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1 1	1
■ E11	VEP03F25A	REAR JACK P. C. BOARD	1 (RTL)	R744	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	1	1
	721 031 231		1	R745	ERJ6GEYG682	M. RESISTOR CH 1/10W 6.8K	1	
				R746	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1	1
C701,02	ECUMIH104ZFN	C. CAPACITOR CH 50V 0.1U	2	R747	ERJ6GEYG220	M. RESISTOR CH 1/10W 22	1	1
C703, 04	ECEA1CKA470	E. CAPACITOR 16V 47U	2	R748	ERJ6GEYG682	M.RESISTOR CH 1/10W 6.8K	1	1
C706, 07	ECUMIH104ZFN	C. CAPACITOR CH SOV 0. IU	2	R750	ERJ6GEYG220	M. RESISTOR CH 1/10W 22	1	I
C708	ECEA1CKA470	E. CAPACITOR 16V 47U	1	R751	ERJ6GEYG682	M. RESISTOR CH 1/10W 6.8K	1	il
C709, 10	ECUMIH104ZFN	C. CAPACITOR CH 50V 0.1U	2	R752, 53	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	2	2
C711	ECEA1CKA470	E. CAPACITOR 16V 47U	1	R754, 55	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	2	2
	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U	2	R756	ERJ6GEYG220	M. RESISTOR CH 1/10W 22	1	1
	ECEA1CKA470	E. CAPACITOR 16V 47U	1	R758	ERJ6GEYG220	M. RESISTOR CH 1/10W 22	1	1
	ECUM1H104ZFN	C. CAPACITOR CH 50V 0.1U		R759	ERJ6GEYG682	M. RESISTOR CH 1/10W 6.8K	1 1	
	ECEA1CKA470	E. CAPACITOR 16V 47U		R760,61	ERJ6GEYG470	M. RESISTOR CH 1/10W 47	2	3
	ECUMINIO4ZFN	C. CAPACITOR CH 50V 0.1U	2	R762	ERJ6GEYG682	M. RESISTOR CH 1/10W 6.8K	1 1	
C726,27	ECEA1CKN330	E. CAPACITOR 16V 33U	_ <u>z</u>	R763, 64	ERJ6GEYJ100	M. RESISTOR CH 1/10W 10	1 2	4
D701 00	MATE 19	DIODE		R765	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1 -	
D701-03	MA151K	DIODE	3	R766	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	H.	1
FL701,02	VLP0145	COIL		R767, 68 R769-72	ERJ6GEY0R00 ERJ6GEYF561	M. RESISTOR CH 1/10W 0 M. RESISTOR CH 1/10W 560	2	4
	VLP0145	COIL	10	R773-76	ERJ6GEY0R00	M. RESISTOR CH 1/10W 560 M. RESISTOR CH 1/10W 0	1 1	4
. 2,00-14	-50.40			17/3-70	- LUCAL I VINOU	ELECTOR OF 1/108 U	+ 4	
IC701	MC74HC4053F	ic	1				1	The state of the second state of the second state of the second s
	XC62AP5002P	IC					1	
IC703	XC62DN5002P	ic	1	1	1	William P. C. W. William and A. C. C. C.	1	
	tomore on the contract of today to be	MARKET CONTROL OF THE STATE OF	y and an arranger are an engagement against angle rapid. The constraint is manual				1	
J701,02	VJ\$3155	CONNECTOR (FEMALE)	2	■ E12	VEP06B94C	FRONT P.C.BOARD	1	1 (RTL)
	VJS3154	CONNECTOR (FEMALE)	4		VEP00Y35B	REMOTE P.C. BOARD	1	1 (RTL)FOR VEP06B94C
J707-09	VJJ0323	RCA PIN JACK	3					78.
		and become the set out to the former to a constitution of the set						
L701-04	VLQ0319K101	COIL 100UH	4	C65001	ECEA1AKS221	E. CAPACITOR 10V 220U	1 1	
D701 15	V BACCAST	COMMITTOE (ALLEY)		C65002, 03	a second or second	C. CAPACITOR CH 50V 100P	2	
P701,02	VJP3600F016K	CONNECTOR (MALE)	2	C65004	ECUMIHIO4ZFN	C. CAPACITOR CH 50V 0.1U	1-1	
0R701-03	XN4601	TRANSISTOR-RESISTOR	3	C65005 C65006	ECEA1CKS330	C. CAPACITOR CH 50V 0.01U E. CAPACITOR 16V 33U		J
0R705	XN4501	TRANSISTOR-RESISTOR		C65006	ECUMITH103KBN	C. CAPACITOR CH 50V 0.01U	-	
	XN4401	TRANSISTOR-RESISTOR	1	C65007	ECEA1AKS221	E. CAPACITOR OF SOV 0.010	1	
	XN4501	TRANSISTOR-RESISTOR	4		ECUM1H101JCN	C. CAPACITOR CH 50V 100P	2	2
	XN4401	TRANSISTOR-RESISTOR	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	# **	ECUM1H220JCN	C. CAPACITOR CH 50V 22P	2	
	XN4501	TRANSISTOR-RESISTOR	1		ECKF1H121KB	C. CAPACITOR 50V 120P	2	of the second of the second
	XN4401	TRANSISTOR-RESISTOR	1	C65301	ECKF1H101KB	C. CAPACITOR 50V 100P	1	1
0R711	XN4501	TRANSISTOR-RESISTOR	1	I		Additional Additional Association and the second of the se	1	
0R712	XN4401	TRANSISTOR-RESISTOR	1	D65002	MA701A	DIODE	1	II .
	XN4501	TRANSISTOR-RESISTOR	1	D6500307	MA153	DIODE	5	5
0R714	UN5113	TRANSISTOR-RESISTOR	1	D65008-10		DIODE] 3	3
		TOTAL MILITERIAL CONTRACTOR CONTR		D65101-13		DIODE	13	3
	ERJ6RED750	M. RESISTOR CH 1/10W 75	3	D65116-19		DIODE	4	4
		M. RESISTOR CH 1/10W 10K	1	D65120-23		LED	1 4	#
		M. RESISTOR CH 1/10W 1K			LN28RCPP	LED	1	1
	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	D65125-28	LN38GCPP	LEO	4	!
the court of the same		M. RESISTOR CH 1/10W 47	- 1	Bherses		Dione and	ļ	
	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	DP65001	VSL0489	DISPLAY	1	1
	ERJ6GEYF472	M. RESISTOR CH 1/10W 4.7K	1	ICCEO01	IIDN7E33C IA3C		 -	
	ERJ6GEYG470 ERJ6GEYG102	M. RESISTOR CH 1/10W 47 M. RESISTOR CH 1/10W 1K		1C65001 1C65002	UPD75236J039 MN1382-R	IIC	1!	
at the same of the same	ERJ6GEYF472	M. RESISTOR CH 1/10W 1K M. RESISTOR CH 1/10W 4.7K	1	1000002	m1130∠-ñ	IC	!	·
	ERJ6GEYG470	M. RESISTOR CH 1/10W 4.7K	1	J65001	VJJ0571	JACK	1	
	ERJ6GEYG102	M. RESISTOR CH 1/10W 1K	1	J65005	ERJ6GEY0R00	M. RESISTOR CH 1/10W 0	1	
	ERJ6RED750	M. RESISTOR CH 1/10W 75	1	J65301	VJJ0277	REMOTE CONTROL JACK	;	
	ERJ6RED680	M. RESISTOR CH 1/10W 68	3			The same of the	'	
	ERJ6RED680	M. RESISTOR CH 1/10W 68	1	L65001.02	VLQ0319K101	COIL TOOUH	2	2
the constant of the con-	ERJ6GEYF473	M.RESISTOR CH 1/10W 47K	1	L65003	VL00319K121	COIL 120UH	1	1
	ERJ6GEYF822	M. RESISTOR CH 1/10W 8.2K	1			- 12001	Ι΄	
	ERJ6GEYG562	M.RESISTOR CH 1/10W 5.6K	1	P65001	VJS3537B024G	CONNECTOR (FEMALE)	1	
	ERJ6GEYG103	M. RESISTOR CH 1/10W 10K	1	P65003	VJP3042A006W	CONNECTOR (MALE)	l i	ı]
							1	1

Ref.No.		Part Name & Description)cs	Remarks	Ref.No.	Part No.	Part Name & Description	Pes	Remarks
P65301	VJS3042B006W	CONNECTOR (FEMALE)	1		C2111,12	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
				4,	C2113	ECEV1HVR330	E. CAPACITOR CH 50V 0.33U	1	1
065002,03		TRANSISTOR	2		C2114	ECEV1CV1000	E. CAPACITOR CH 16V 10U	1	
065101-08	MSD601-R	TRANSISTOR	8		C2115	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
		The state of the s			C2116	ECUX1H333KBN	C. CAPACITOR CH 50V 0.033U	1	
OR65002,0	MUN2213	TRANSISTOR-RESISTOR	2		C2117	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
					C2201	ECUX1H682KBV	C. CAPACITOR CH 50V 6800P	11	
		M. RESISTOR CH 1/10W 0	1		C2202	ECEV1CV1000	E. CAPACITOR CH 16V 10U	1 !	
		M. RESISTOR CH 1/10W 0	1		C2203	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P	1	İ .
.,		M. RESISTOR CH 1/10W 47K	3		C2204	ECEVICV1000	E. CAPACITOR CH 16V 10U	1	
		M.RESISTOR CH 1/10W 470	1		C2205	ECUX1H182KBV	C. CAPACITOR CH 50V 1800P	1:	
A CONTRACT OF		M. RESISTOR CH 1/10W 10K	9		C2206	ECEVICV1000	E. CAPACITOR CH 16V 10U	'	
		M. RESISTOR CH 1/10W 22K	4		C2208, 09	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2	
		M. RESISTOR CH 1/10W 10K	2		C2210	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U		
		M. RESISTOR CH 1/10W 3.9K	_ !		C2211	ECEVICV2200	E. CAPACITOR CH 16V 22U	1 !	
	and the analysis are regarded to the	M. RESISTOR CH 1/10W 47K	3		C2212	ECEVICVI000	E. CAPACITOR CH 16V 10U		
4 4		M. RESISTOR CH 1/10W 47K	8		C2213, 14	ECUX1H562KBV	C. CAPACITOR CH 50V 5600P	1 4	
	The state of the s	M. RESISTOR CH 1/10W 10K	0		C2215, 16 C2217	ECUX1H333KBN ECUX1H103KBV	C. CAPACITOR CH 50V 0.033U C. CAPACITOR CH 50V 0.01U	1	
ARTON CONTRACTOR OF	ERJ6GEYG223	M. RESISTOR CH 1/10W 22K M. RESISTOR CH 1/10W 100	1		C2217	ECUX1H010CCV	C. CAPACITOR CH 50V 0,010		
employees and decided a state to the second	ERJ6GEYG101	CONTRACTOR DAYS AND AND AND AND AND AND AND AND AND AND			C2218, 19	ECUX1C333KBV	C. CAPACITOR CH 16V 0.033U	1	
	ERJ6RBD153	THE THE PARTY OF T					C. CAPACITOR CH 50V 0.01U	1	
grand to the second	ERJ6RBD392 ERJ6RBD683	M. RESISTOR CH 1/10W 3.9K M. RESISTOR CH 1/10W 68K			C2222, 23 C2224	ECUX1H103KBV ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1 ;	
	ERJ6GEYG332	M. RESISTOR CH 1/10W 68K M. RESISTOR CH 1/10W 3.3K	-		C2225	ECUX1H562KBV	C. CAPACITOR CH 50V 5600P	+ ;	,
March 2 (4) 11 1 1 1 1	the house of the same of	M. RESISTOR CH 1/10W 3.3K	1		C2225 C2226, 27	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	
	ERJ6GEYG103	M. RESISTOR CH 1/10W 22K	,	processing the state of the sta	C2226, 27	ECUX1H103KBV	C. CAPACITOR CH 50V 3300P	1	
	ERJ6GEYG683	M. RESISTOR CH 1/10W 10K	17		C2302, 03	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1 3	
Water Control of the Control of	ERJ6GEYOROO	M. RESISTOR CH 1/10W 0	"		C2302, 03	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P	1	
**************************************	ERJ6GEYG181	M. RESISTOR CH 1/10W 180	R		C2305, 06	ECUX1H470JCV	C. CAPACITOR CH 50V 47P		2
	ERJ6GEYG332	M. RESISTOR CH 1/10W 3.3K	R	***	C2307	ECUX1C105KBM	C. CAPACITOR CH 16V 1U		il
R65117	ERJ6GEYG181	M. RESISTOR CH 1/10W 180	1	and the second of the second o	C2308	ECUX1H101JCV	C. CAPACITOR CH 50V 100P		
1100111	LI WOOD TOTOL				C2309	ECUX1C105KBM	C. CAPACITOR CH 16V 1U		T
SW65101-0	EV00S307K	SWITCH	6		C2310	ECUX1H471JCV	C. CAPACITOR CH 50V 470P		
SW65107	EVQ11409K	SWITCH	1		C2311	ECUX1C105KBM	C. CAPACITOR CH 16V 1U		11
SW65108-1		SWITCH	4	and the second of the second o	C2312	ECUX1H471JCV	C. CAPACITOR CH 50V 470P	1	1
SW65112,1		SWITCH	2	rana kamping kapi sani sani na na na na na na na na na na na na na	C2313	ECEVICV1000	E. CAPACITOR CH 16V 10U	1	1
SW65114	EV00S307K	SWITCH	ī	* man a concern por constitue de la proposición de la constitue de la constitu	C2314	VCK0152	C. CAPACITOR		i
			-	970 t 981 M9 at MM to 4 to	C2315-20	ECUX 1H103KBV	C. CAPACITOR CH 50V 0.01U		il
VR65001,0	EVUFMAEA3824	V. RESISTOR 20K	2	NATIONAL CONTRACTOR OF THE PARTY OF THE PART	C2402	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	
VR65003	EVJYMOF15C23	V. RESISTOR 2K	1		C2406	ECUX1H562KBV	C. CAPACITOR CH 50V 5600P	1	ı
			-		C2408,09	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1	2
X65001	VSX0140	CRYSTAL OSCILLATOR	1		C2411	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U		
			1		C2413	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1	1
		MISCELLANEOUS	Ī		C2414-16	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	1	3
]		C2417, 18	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	2	2
	VJF1296	LCD HOLDER	1		C2419	ECEV1HV2R2Q	E. CAPACITOR CH 50V 2.2U	1	1
	VGQ0458	LCD SPACER	9		C2420, 21	ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1 2	2
	VZT0045	CUSHION	1	NE SANDO ESTA AND SANDO SE SANDO SE SE SANDO SE SE SE SANDO SE SE SANDO SE SE SE SE SANDO SE SE SE SANDO SE SE	C2422	ECEV1HV2R20	E. CAPACITOR CH 50V 2.2U		1
						ECUM1E473KBN	C. CAPACITOR CH 25V 0.047U	1	2
				**************************************	C2425	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
		10. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10.	ļ	makaka merani sama sang manadan sesahan ada Mella sebila	C2426	ECEV1HV2R2Q	E. CAPACITOR CH 50V 2.2U		
					C2427	ECUX1C105KBM	C. CAPACITOR CH 16V 1U		
			ļ		C2432	ECUX1H333KBN	C. CAPACITOR CH 50V 0.033U		
■ E13	VEP80856A	CARRIGE P. C. BOARD	1	(RTL)	C2434	ECUX1H333KBN	C. CAPACITOR CH 50V 0.033U		
	1	United the control of		MANAGEMENT OF THE STATE OF THE	C2437	ECUX1H333KBN	C. CAPACITOR CH 50V 0.033U	-	
01	V (816 467	COMMECTOD (MALE)			C2438	ECUX1H103KBV	C. CAPACITOR CH SOV 0.01U		
P1	VJP1249T	CONNECTOR (MALE) 9P			C2444	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U C. CAPACITOR CH 16V 1U		
P2	VJS2889A012	CONNECTOR (FEMALE)	⊢!	######################################	C2445 C2450	ECUX1C105KBM ECUX1H562KBV	C. CAPACITOR CH 16V 1U C. CAPACITOR CH 50V 5600P	-	A STATE OF THE PARTY OF THE PAR
P3	VJS2889A016	CONNECTOR (FEMALE)	ľ		C2450 C2451	ECUX1H362KBV	C. CAPACITOR CH SOV 0.01U		
D1 D7	CONCOT 1001	C DESISTOR 1/AW 200	,		C2455-57	ECUX1H103KBV	C. CAPACITOR CH 25V 0.1U	1	
R1-R7	ERDS2TJ221	C.RESISTOR 1/4W 220	'		C2458-60	ECEV1HV2R20	E. CAPACITOR CH 50V 2.2U	1	many promise a management to be a fill about
			1		C2458-60	ECUM1C474KBM	C. CAPACITOR CH 16V 0.47U	1	
					C2462	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	+	
			l	·	C2462 C2463, 64	ECUX1C105KBM	C. CAPACITOR CH 16V 1U		
					C2465-67	ECUX1H472KBV	C. CAPACITOR CH 50V 4700P	1 :	
■ £14	VEP02545J	SERVO P.C.BOARD		(RTL)	C2468-70	ECUX1H472KBV	C. CAPACITOR CH 50V 0.033U	1	
- L14	TEFUZ 3433	OLITO 1. O. DONNO	Ι'	····-/	C2471-76	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1 6	
***************************************				george congress and the second	C2471-78	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U	1 3	• • • • • • • • • • • • • • • • • • •
C2001	ECEVICY1000	E. CAPACITOR CH 16V 10U	١,	·	C2477, 78	VCK0152	C. CAPACITOR CH 25V U. 10	1 1	
C2003	ECEVICVIOOO	E. CAPACITOR CH 16V 10U E. CAPACITOR CH 16V 10U	¦	argang a crist of a subsequence of the control of t	C2479	ECEVICV1000	E. CAPACITOR CH 16V 10U	14	
	ECEVICVIOO0		- ;		C2501-06	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	1 2	
C2101	ECUX1C105KBM	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	',		C2507	ECEVOJV3300		1 5	
C2103	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U			.			+ :	
C2107, 08	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U	2		C2508-12	ECUX1E104KBN	C. CAPACITOR CH 25V 0. 1U	1 3	(
	ECUX1H180JCV	C. CAPACITOR CH 50V 18P	2		C2513, 14	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1 4	
C2109, 10						t .	t contract to the contract to		

				D (N	15 . 15	D + M - e D - ' ' -	D	Dlen
Ref. No.		Part Name & DescriptionPcs	Remarks	Ref.No.		Part Name & Description	Pcs	Remarks
C2515-19	VCE0180	E. CAPACITOR 5		C64207		E. CAPACITOR CH 25V 4.7U	'	
C2520-25	ECEV1CV1000	E. CAPACITOR CH 16V 10U 6	11	C64208	ECUX1C105KBM	C. CAPACITOR CH 16V 1U	1	
C2526-31	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 6		C64209	ECEV1CV4700	E. CAPACITOR CH 16V 47U	1	1
C2532-37		C. CAPACITOR CH 25V 0.1U 6					1	
				D2001,02	MA704	DIODE	1 2	1
C2539, 40	ECEVO JV3300	E. CAPACITOR CH6. 3V 33U 2				and the control of th	1	
C2541	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 1		D2301,02		DIODE	4	
C2542	ECEV1CV1000	E. CAPACITOR CH 16V 10U 1		D2401-06	MA738	DIODE	6	
C2543	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U 1		D2450-55	MA738	DIODE	6	
C2601	VCE0180	E. CAPACITOR 1	WAS WELL TO BE THE COMMENT OF THE CO	D2501,02	MA736	DIODE	2	
C2603	VCE0180	E. CAPACITOR 1		D2503, 04	MA728	DIODE	2	
		C. CAPACITOR CH 50V 0.01U 1		D2601	MA728	DIODE	1	
C2606	ECUX1H103KBV	4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -					+ ;	
C2607	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U 1	24.4	D2602	MA736	DIODE		
C2608	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 1		D2603	MA728	DIODE	1.1	
C2609	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U 1	. 11	D2604	MA736	DIODE	1 1	
C2610	VCC0037F432	C. CAPACITOR 432P 1	11	D2701-03	MA143	DIODE	3	il
C2611	VCE0180	E. CAPACITOR 1		D2901-04	MA143	DIODE	4	
C2613	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 1		D2906,07	MA736	DIODE	2	1
	1	A STATE OF THE STA		D64001	MA8051-H	DIODE	1	A CONTROL OF THE SECOND CONTROL OF THE SECON
C2614	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U 1	**************************************	***************************************			1-:	
C2615	VCE0180	E. CAPACITOR 1		D64002	21D004	0100E	1 !	
C2617	VCE0180	E. CAPACITOR 1		D64003-08	MA738	DIODE	6	
C2619	VCK0152	C, CAPACITOR 1		D64009, 10	NSQ03A04	DIODE .	2	:[
C2620	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 1		D64011,12	MA738	DIODE	2	2
C2621	ECEVOJV3300	E, CAPACITOR CH6, 3V 33U 1	· · · · · · · · · · · · · · · · · · ·	D64013, 14	1 100 100 1 100 1	DIODE	2	A CONTRACTOR OF THE PROPERTY O
C2622	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 1	THE THE PARTY OF T	D64015-22		DIODE	8	1
	4	4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		D64023-26	A CHARLE A CONTRACTOR	DIODE	1 7	The state of the s
C2707	ECEV1CV1000	E. CAPACITOR CH 16V 10U 1	The second secon			A CONTRACTOR OF THE SECOND STATE OF THE SECOND SECO	1 :	
C2708	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U 1		D64201	MA3100-L	3001C	1-	
C2709	ECUX1H122KBV	C. CAPACITOR CH 50V 1200P 1		D64203	MA3068-M	DIODE	1.1	
C2710	ECUX1H101JCV	C. CAPACITOR CH 50V 100P 1		D64204	MA3056-M	DIOOE	1	
C2711	ECUX1C105KBM	C. CAPACITOR CH 16V 1U 1	The state of the s	D64205	MA3051-M	D100E] 1	1
C2712, 13		C. CAPACITOR CH 50V 0.01U 2		D64209	MA3056-H	DIODE	1	
C2714	ECUX1C105KBM	C. CAPACITOR CH 16V 1U 1	The state of the s	D64210	MA3100-L	DIODE	1 1	1
		The state of the s		D64214	MA3075-M	DIOOE	1	
C2715	ECUX1E273KBV	C. CAPACITOR CH 25V 0.027U 1				a trial material control of the cont	1-	
C2716	ECUX1H332KBV	C. CAPACITOR CH 50V 3300P 1		D64215	MA738	DIODE	+	
C2717	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 1		D64216	MA142WK	D100E	4 -	
C2719	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 1						The second secon
C2721-24	ECEV1AV3300	E. CAPACITOR CH 10V 33U 4		FL2001	VLF0941C223	FILTER	1 1	1
C2725, 26	ECUX1H103KBV	C. CAPACITOR CH 50V . 0.01U . 2						
C2727	ECEV1CV1000	E. CAPACITOR CH 16V 10U 1	The second secon	IC2101	VS13122	IC	1	t I
C2728, 29		C. CAPACITOR CH 50V 0.01U 2	\$100,000 pt 1,000 pt	IC2102	TC7SHU04FU	IC	1	
		The state of the s	10 × 10 × 10 × 10	IC2103	S80730ANDT	IC	1-1	1
C2801-04		THE RESIDENCE OF STREET AND ADDRESS OF STREET, AND ADDRESS OF STREET	and the second s			IC		3
C2903	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 1		IC2104, 05		the state of the s	1 :	
C2904	ECUX1C105KBM	C. CAPACITOR CH 16V 1U 1		IC2106	TC7SHU04FU	IC	4-4	
C2905	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P 1	***************************************	1C2201	VS13121	IC	1	J
C2906	ECUX1C105KBM	C. CAPACITOR CH 16V 1U 1		1C2202	SC371025AVFU	lic		<u></u>
C2907	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P 1		IC2203	TA75W01FU	IC	1 1	[]
C2908	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 1		1C2205	TC7W74FU	lic		II.
C2909	ECUX1H221JCV	C. CAPACITOR CH 50V 220P 1		1C2206	TA75W01FU	lic		
C2910	ECUX1C105KBM	C. CAPACITOR CH 16V 1U 1		1C2207	TVHC574FT	lic	1	1
			143.17) reg. 1487.3P 148.21.11.11.18.21.18.21.18.21.18.21.19.21.19.19.19.19.19.19.19.19.19.19.19.19.19	IC2209-11		IC	1	
C2911	ECUX1H221JCV				· · · · · · · · · · · · · · · · · · ·		-	
C2912	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P 1		IC2301	TA75W558FU	IC	+	1
C2913	ECUX1C105KBM		and the second s	1C2302	TA75W393FU	IC	1	1
C2914	ECUX1H221JCV	C. CAPACITOR CH 50V 220P 1		1C2303	TA75W558FU	IC		
C2915	ECUX1H102JCV	C. CAPACITOR CH 50V 1000P 1		IC2304	TA75W393FU	IC		
C2918	ECUX1H221JCV			IC2305	TA75W558FU	IC	T	
C2919	ECUX1H103KBV	A CONTRACTOR OF THE PROPERTY O	'' '	IC2306	TC7W74FU	lic	13	
C2913	ECUX1H103KBV	The state of the s		IC2401,02	and the second second cases and the second	lic	13	2
		A STATE OF THE PARTY OF THE PAR		1C2404	TA75W558FU	IC	1:	\$
C2923-25		the same and the s		1C2404	TA75W01FU	lic	+ :	
C2926	ECEV1HV3R3Q	E. CAPACITOR CH 50V 3.3U 1	**************************************				+	1
C2927	ECUX 1H103KBV	C. CAPACITOR CH 50V 0.01U 1		1C2406	TA75W393FU	IC	1	
C2928	VCK0152	C. CAPACITOR 1		1C2407	XC62DN5002P	IC	1	
C2932	ECUX1E104KBN	C. CAPACITOR CH 25V 0.1U 1		1C2502	TA75W393FU	lic		
C2934	ECUX1H103KBV	the state of the s		1C2503	TB6519F	IC		
C2935	ECEVOJV3300	E. CAPACITOR CH6. 3V 33U 1		1C2506	TB6519F	lic	1	
C2937	ECUX1E104KBN			IC2601	TL1451CNS	IC	1	1
				1C2602	XC62AP5002P	ic		,
C2942	ECUX1H103KBV			and the second of the second		ic .	1	
C2947-49				1C2701	UPC4556G2	August 1985 - Communication of the communication of	1	
C2951	ECEV1CV2200	E. CAPACITOR CH 16V 22U 1	ļ i	1C2702	TC4W53FU	1c	1	4
C2952-55	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 4		1C2703	NJM4565MD	1C	1	
C64001	ECEV1CV1000	E. CAPACITOR CH 16V 10U 1	Marie Marie	1C2704	TC7W04F	1C	T	1
C64002	ECUX1E104KBN			1C2705	TC7W74FU	lic	1	1
				IC2801	T160G11-1258	IC	13	1
C64003	ECUX1H103KBV	the second section and the second section and the second section and the second section and the second section	- · · · · · · · · · ·		A CONTRACTOR OF THE CONTRACTOR	ic	1	
C64201,0	l l	E. CAPACITOR CH 16V 47U 2	ļ l	1C2901	TA75W558FU	F -		
C64203	ECEV07A3300	E. CAPACITOR CH6. 3V 33U 1		1C2902	TA75W393FU	l C	1	1
C64204, 0	5 ECUX1C105KBM	C. CAPACITOR CH 16V 1U 2	1 I	1C2904	TA75W558FU	IC		1
C64206	ECUX1H103KBV	C. CAPACITOR CH 50V 0.01U 1	<u> </u>	IC2905	TA75W393FU	IC		4
				1	1	1	1	
1			1	I	1	1	1	
					1	I .	-	

Ref. No.	Part No.	Part Name & Description	Pes		ef.No.	Part No.	Part Name & DescriptionPes	Remarks
Commence of the control of	UPC4558G2	IC	2	the man, it has provided a control of the latest and as any assumption of the control of the con	4017	2SB1073-R	TRANSISTOR 1	
1C2908	TA75W01FU	IC	1 !!	11 .	4018	2SD1624-S	TRANSISTOR 1	
IC64001	NJM2904M	IC				2SD1819A-R	TRANSISTOR 2	-dd
IC64201.02	M34649L	IC	14		4021	2SB1219A-R	TRANSISTOR 1	
1.0001	VI 00210K101	CO. 100111	١, ١		4022	2SB1073-R	TRANSISTOR 1	
L2001 L2003	VL00319K101	COIL 100UH	- 1		4023	2SB1219A-R	TRANSISTOR 1	
	VLQ0319K100 VLQ0319K100	COIL 100H	1 :1		4024	2SD1819A-R	TRANSISTOR 1	
					4025	2SB1073-R	TRANSISTOR 1	to Makesana and a second
and the second of the second	VLQ0319K101 VLQ0319K100	COIL 100UH		11	4026 4027	2SB1219A-R 2SD1624-S	TRANSISTOR I	
CONTRACTOR OF THE PARTY OF THE	VLQ0407120M	COIL 120H	1		4027	2SB1073-R	TRANSISTOR 1	
	VL00319K100	COIL 10UH	;		4029	2SD1624-S	TRANSISTOR 1	
THE RESERVE AND THE PERSON NAMED IN COLUMN	VL00407151K	COIL 150UH			4030	2SD1824-3 2SD1819A-R	TRANSISTOR 1	
agaring and a second a second and a second and a second and a second and a second and a second and a second and a second and a second and a second a	VL00129	COIL 3000H	1		4030	2SD1624-S	TRANSISTOR	
	VL00407120M	COIL 12UH			4032	2SB1073-R	TRANSISTOR 1	
CONTRACTOR OF STREET	VLQ0407151K	COIL 150UH	2			2SB1219A-R	TRANSISTOR 1	
COLUMN ASSESSMENT PRODUCTS	VLQ0319K101	COIL 100UH	2	at 1900 il. 1920 il. 1935 il. 1930 il.	4034	2SD1624-S	TRANSISTOR	
Market of the Control	VL00319K101	COIL 100UH	1	AND THE PERSON NAMED IN COLUMN 1	20 10 1	2SD1819A-R	TRANSISTOR	
	VL00319K101	COIL 100UH	1 1	**************************************		2SD1624-S	TRANSISTOR 1	
	VLQ0319K101	COIL 100UH	2	77'S 77 '7 ' 1 ' 1 ' 1 ' 1 ' 1 ' 1 ' 1 ' 1 '	1 101 1	2SB1073-R	TRANSISTOR 1	
	enconcern de minero, viccos	William Committee to the region of Service of Service	1 1	and the second of a state of the contract of the second of the second of	1203	2SD1819A-R	TRANSISTOR 1	
P2001, 02	VJP3949C070H	CONNECTOR (MALE)	2					
CANADA STAND OF LINES SERVICE	VJP1231T	CONNECTOR (MALE) 4P	1	082	2401,02	UN5213	TRANSISTOR-RESISTOR 2	
P2004	VJP1230T	CONNECTOR (MALE) 3P	1	**************************************	2450, 51		TRANSISTOR-RESISTOR 2	#*************************************
P2011	VJP3172D002	CONNECTOR (MALE)	1 1	1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2501,02		TRANSISTOR-RESISTOR 2	
P2012	VJP3172D005	CONNECTOR (MALE)	1	THE CALL AND ADDRESS OF THE PROPERTY OF THE PR		UN5213	TRANSISTOR-RESISTOR 2	
P2013	VJP3172D002	CONNECTOR (MALE)	1	a management of Million of Million and Million and Commission of the Company of	Children in a con-	UN5114	TRANSISTOR-RESISTOR 1	
P2014	VJP3172D003	CONNECTOR (MALE)	1	CONTRACTOR OF THE PARTY OF THE	4 . in a	UN5214	TRANSISTOR-RESISTOR 1	
P2015	VJP3518B002	CONNECTOR (MALE)	1	production of the second secon		UN5114	TRANSISTOR-RESISTOR 1	16.100.100 tableton
P2016	VJP3518B003	CONNECTOR (MALE)	17	QR6	64004-00	UN5214	TRANSISTOR-RESISTOR 3	
P2017	VJS3801B010	CONNECTOR (FEMALE)	1	OR6	34007	UN5114	TRANSISTOR-RESISTOR 1	
P2018	VJP3518B002	CONNECTOR (MALE)	1	OR6	4008	UN5214	TRANSISTOR-RESISTOR 1	
P2019	VJP3172D002	CONNECTOR (MALE)		QR6	64009	UN5114	TRANSISTOR-RESISTOR 1	
P2020	VJP3518B003	CONNECTOR (MALE)	1	OR6	64010, 11	UN5214	TRANSISTOR-RESISTOR 2	
P2021	VJP3518B002	CONNECTOR (MALE)	[1]	QR6	64012, 1	UN5114	TRANSISTOR-RESISTOR 2	
P2022	VJP3172D004	CONNECTOR (MALE)	1	OR6	64014	UN5214	TRANSISTOR-RESISTOR 1	
P2024	VJP3518B002	CONNECTOR (MALE)	1	QR6	4015, 16	UN5114	TRANSISTOR-RESISTOR 2	
P2025	VJP1230T	CONNECTOR (MALE) 3P	1	OR6	4017	UN5211	TRANSISTOR-RESISTOR 1	
P2026	VJP1236T	CONNECTOR (MALE) 9P	1	OR6	4201-03	UN5213	TRANSISTOR-RESISTOR 3	***************************************
P2030	VJP3172D003	CONNECTOR (MALE)	1	OR6	4204.05	UN5211	TRANSISTOR-RESISTOR 2	
P2032	VJP3172D004	CONNECTOR (MALE)	1	OR6	4212	UN5114	TRANSISTOR-RESISTOR 1	
P2033	VJS3406B015	CONNECTOR (FEMALE)	1	QR6	4213, 14	UN5214	TRANSISTOR-RESISTOR 2	
P2034, 35	VJS3813C017	CONNECTOR (FEMALE)	2					
	VJS3406B019	CONNECTOR (FEMALE)	1	R21			M. RESISTOR CH 1/16W 1M 1	
	VJP3125B002	CONNECTOR (MALE)	1	R21	***************************************	Accessosant page on property of the second	M. RESISTOR CH 1/16W 100 1	
P2038	VJP3172D002	CONNECTOR (MALE)	1	R21		also also also also also also also also	M. RESISTOR CH 1/16W 330 1	
				R21		** 1 % NOTES THAT IS	M. RESISTOR CH 1/16W 120K 1	
02501,02		TRANSISTOR	2	R21	*****		M. RESISTOR CH 1/16W 470 1	
02503-06	CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR	TRANSISTOR	4	R21			M. RESISTOR CH 1/16W 10K 1	
02507-09		TRANSISTOR	3	250 C. 201 - 100-20-20-20-20-20-20-2-1-1-1-1-1-1-1-1-	constant of a second	THE RESIDENCE IN A 2011 PART.	M. RESISTOR CH 1/16W 47K 2	
	2S81073-R	TRANSISTOR	3	R21	41-400 CARON CO.		M. RESISTOR CH 1/16W 100 1	
THE RESIDENCE OF THE PARTY OF T	2SD1119-R	TRANSISTOR	- 3		1.000		M. RESISTOR CH 1/16W 1K 6	
02516-18		TRANSISTOR	3	#1921-0-11-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1			M. RESISTOR CH 1/16W 100 4	
	2SB1073-R	TRANSISTOR	2	R21:			M. RESISTOR CH 1/16W 1K 1	
	2SD1820R	TRANSISTOR TRANSISTOR		R21:	A	war advanced distance of the called the con-	M. RESISTOR CH 1/16W 47K 1	
	2SB1219A-R	the site stills and the contract of the contra	-: -	R21:		without their Arra a complete tree .	M. RESISTOR CH 1/16W 0 1	
Committee and Automotive and Automotive	2SD1820R 2SB1219-R	TRANSISTOR TRANSISTOR	',	R21:	-4		M. RESISTOR CH 1/16W 1K 1	
		TRANSISTOR	5	CANADA CA		manufacture of the second contract of the sec	M. RESISTOR CH 1/16W 2.2K 2	
Party services and	2SD1820R 2SB1219A-R	TRANSISTOR	1	R220		ERJ3RBD103 ERJ3GEYJ473	M. RESISTOR CH 1/16W 10K 2	
-0	2SB1219A-R	TRANSISTOR		R220			M. RESISTOR CH 1/16W 47K 1	
	2SB1219A-H 2SB936A-0	TRANSISTOR		THE RESERVE CONTRACTOR OF THE			M. RESISTOR CH 1/16W 330 1	
064002	2SD1819A-R	TRANSISTOR				44	M. RESISTOR CH 1/16W 4.7K 2	
	2SB1073-R	TRANSISTOR	+				M. RESISTOR CH 1/16W 56K 4	
	2SD1819A-R	TRANSISTOR					M. RESISTOR CH 1/16W 10K 2	
	2SB1219A-R	TRANSISTOR		R22:			M. RESISTOR CH 1/16W 2.2K 2	
er entre t terrer and	2SD1819A-R	TRANSISTOR		R222			M. RESISTOR CH 1/16W 100K 1	
	2S81073-R	TRANSISTOR		R223			M. RESISTOR CH 1/16W 120K 1	
	2SB10/3-H 2SD1624-S	TRANSISTOR		R223	·····	····	M. RESISTOR CH 1/16W 0 1	
			,	- I	1		M. RESISTOR CH 1/16W 5.6K 1	
	2SD1819A-R	TRANSISTOR	2	R222			M. RESISTOR CH 1/16W 1K 1	
	2SB1219A-R	TRANSISTOR TRANSISTOR	4	R223		1011 -1 44 1/4 4	M. RESISTOR CH 1/16W 6, 8K 1	
- 1	2SD1819A-R	TRANSISTOR TRANSISTOR					M. RESISTOR CH 1/16W 100 4	
	2S81073-R	TRANSISTOR TRANSISTOR	1			A MITTALE MATERIAL MA	M. RESISTOR CH 1/16W 100 6	
	2SD1624-S	TRANSISTOR TRANSISTOR	4	R224	- 1		M. RESISTOR CH 1/16W 1K 1	
064016	2SB1219A-R	TRANSISTOR	- 1	R224	43 E	RJ3GEYJ101	M. RESISTOR CH 1/16W 100 1	
1			-					

Ref. No.	Part No.	Part Name & DescriptionPo	s Remarks	Ref.No.	Part No.	Part Name & Desci	iption	Pes	Remarks
	ERJ3GEYJ101	M. RESISTOR CH 1/16W 100	1	R2529	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	
2301	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	R2530	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1	
	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	R2531	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	
	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	R2532	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0	1	A CONTRACTOR OF THE CONTRACTOR
	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	R2533	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1	
	ERJ3GEYJ821	M. RESISTOR CH 1/16W 820	1	R2534, 35	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	2	
	ERJ3GEYJ223	M. RESISTOR CH 1/16W 22K	1	R2536	ERJ3GEYJ394	M. RESISTOR CH 1/16W	390K	1	
	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	R2537, 38	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	2	
	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	R2539	ERJ3GEYJ393	M. RESISTOR CH 1/16W	39K	1	
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	R2540	ERJ3GEYJ394	M. RESISTOR CH 1/16W	390K	1	
	ERJ3GEYJ223		1	R2541	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	AND THE CONTRACTOR OF THE CONT
	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K	1	R2542	ERJ3GEYG471	M. RESISTOR CH 1/16W	470		
	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	<u>.</u>	section today to		Committee and the court of the committee	4.7K		
2312	ERJ3GEYJ184	M. RESISTOR CH 1/16W 180K		R2543	ERJ3GEYG472	M. RESISTOR CH 1/16W	***************************************	-	**************************************
2313-15	ERJ3GEYG472	M. RESISTOR CH 1/16W 4.7K	3	R2544	ERJ3GEYJ393	M. RESISTOR CH 1/16W	39K	-	
2316	ERJ3GEYJ564	M. RESISTOR CH 1/16W 560K	1	R2545	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1	and the second community and the second
12317	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	R2546	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100	1	
2318	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	R2601,02	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1 2	
2319	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	R2603	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1	
2320, 21	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	R2604, 05	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K	1 2	2
2322	ERJ3GEYJ823	M. RESISTOR CH 1/16W 82K	1	R2606	ERJ3GEYJ104	M. RESISTOR CH 1/16W	100K		
	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	R2607	ERJ8GEYJ681	M. RESISTOR CH 1/8W	680		
2323		M. RESISTOR CH 1/16W 100K	Sur mental and an analysis of the same and an analysis of	R2608	ERJ3GEYJ153	M. RESISTOR CH 1/16W	15K	1	
2324	ERJ3GEYJ104		1	R2609	ERJ3GEYJ474	M. RESISTOR CH 1/16W		1	
32326	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1		ERJ3GEYJ104	M. RESISTOR CH 1/16W		+	
32327	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K		R2610	CONTRACTOR OF THE PARTY AND			+ :	The state of the s
R2328	ERJ3GEYJ334	M. RESISTOR CH 1/16W 330K	II	R2612	ERJ3RBD183	M. RESISTOR CH 1/16W	18K	+	
32329	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K		R2614	ERJ3GEYJ474	M. RESISTOR CH 1/16W		1	
32331	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	The second district the second	R2615	ERJ3GEYJ153	M. RESISTOR CH 1/16W	15K	1	
R2334	ERJ3GEYJ153	M. RESISTOR CH 1/16W 15K	1	R2618	ERJ3GEYJ683	M. RESISTOR CH 1/16W	68K	1	
32336, 37	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	2	R2619	ERJ3GEYJ273	M. RESISTOR CH 1/16W	. 27K		
32402	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	R2622	ERJ8GEYJ681	M. RESISTOR CH 1/8W	680		
32404	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	R2623	ERJ3GEYJ683	M. RESISTOR CH 1/16W	68K		1
12405	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	1	R2624	ERJ3GEYJ273	M. RESISTOR CH 1/16W	27K	1	1
R2409	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	R2625	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1	1
			AND THE RESIDENCE OF THE PERSON OF THE PERSO	R2627, 28	ERJ3GEY0R00	M. RESISTOR CH 1/16W			2
R2411	ERJ3RB0182			R2629, 30	ERJ3GEYJ104	M. RESISTOR CH 1/16W		-	2
R2412	ERJ12YJ2R2	M. RESISTOR CH 1/2W 2.2		R2701,02	ERJ3GEYJ563	M. RESISTOR CH 1/16W		-	91.
R2415	ERJ12YJ2R2	M. RESISTOR CH 1/2W 2.2	Harris Diana di Barris de	to restrict and the state of th			catego (e) (2) (1) especialists	-	1
R2421	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K		R2703	ERJ3GEYJ104	M. RESISTOR CH. 1/16W		-	
R2423	ERJ3GEYJ123	M. RESISTOR CH 1/16W 12K		R2704	ERJ3GEYJ103	M. RESISTOR CH 1/16W	• 1 best rept = 10 pe 3 tareful con-	-	•
R2428, 29	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	2	R2705	ERJ3GEYJ104	M. RESISTOR CH 1/16W			
R2432	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	1	R2706	ERJ3GEYJ103	M. RESISTOR CH 1/16W	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ļ	<u>}</u>
R2436	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	R2711	ERJ3GEYJ330	M. RESISTOR CH 1/16W			
R2443	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270	1	R2712	ERJ3GEYJ562	M. RESISTOR CH 1/16W		1_	1
R2450, 51	ERJ3GEYJ104	M. RESISTOR CH 1/16W 100K	2	R2713	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100		1
R2452	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	R2714	ERJ3GEYJ683	M. RESISTOR CH 1/16W	68K	1	1
R2453	ERJ3RBD103	M. RESISTOR CH 1/16W 10K	1	R2715	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K		1
R2454	ERJ3R8D182	M. RESISTOR CH 1/16W 1.8K	1	R2719	ERJ3GEYJ823	M. RESISTOR CH 1/16W	82K		1
R2455.56	ERJ12YJ2R2	M. RESISTOR CH 1/2W 2.2	2 .	R2720	ERJ3GEYJ393	M. RESISTOR CH 1/16W	39K	1	1
R2457-59	ERJ3GEYJ330	M. RESISTOR CH 1/16W 33	3	R2722	ERJ3GEYJ183	M. RESISTOR CH 1/16W		1	1
			1	R2723	ERJ3GEYJ683	M. RESISTOR CH 1/16W		+	1
R2460	ERJ3GEYJ123		1	, R2724	ERJ3GEYJ183	M. RESISTOR CH 1/16W		1-	1
A2461	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	1	R2725	ERJ3GEYJ681	M. RESISTOR CH 1/16W	uman consume a	-	1
R2462	ERJ3GEYG471	M. RESISTOR CH 1/16W 470		A THE PARTY OF THE				+	1
R2463	ERJ3GEYJ271	M. RESISTOR CH 1/16W 270		R2726	ERJ3GEYJ683	M. RESISTOR CH 1/16W		-	
R2465	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	R2727	ERJ3GEYJ823	M. RESISTOR CH 1/16W		-	
R2467	ERJ3GEYJ563	M. RESISTOR CH 1/16W 56K	1	R2728	ERJ3GEY0R00	M. RESISTOR CH 1/16W		1	
R2468-71	ERJ3RBD563	M. RESISTOR CH 1/16W 56K	4	R2730, 31	ERJ3GEYJ821	M. RESISTOR CH 1/16W		1.	2
32472,73	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	2	R2732, 33	ERJ3GEYJ103	M. RESISTOR CH 1/16W			2
R2474	ERJ3GEYJ683	M. RESISTOR CH 1/16W 68K	1	R2734, 35	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K	1	2
R2476	ERJ3GEYJ103	M. RESISTOR CH 1/16W 10K	1	R2736	ERJ3GEY0R00	M. RESISTOR CH 1/16W	0		1
32477,78		M. RESISTOR CH 1/16W 27K	2	R2801	ERJ3GEYG102	M. RESISTOR CH 1/16W	1K		1
32479-82		M. RESISTOR CH 1/16W 1K	4	R2802	ERJ3GEYJ101	M. RESISTOR CH 1/16W	100		1
32501.02	er agentiationers interest recorder	M. RESISTOR CH 1/16W 12K	2	R2803, 04	ERJ3GEY0R00	M. RESISTOR CH 1/16W		1	2
32503,04		M. RESISTOR CH 1/16W 4.7K	2	R2806	ERJ3GEY0R00	M. RESISTOR CH 1/16W		1	1
		M. RESISTOR CH 1/16W 680	9	R2808	ERJ3GEYOROO	M. RESISTOR CH 1/16W	Angle Comments of	1	1
12505,06		****	2	R2901,02	ERJ3GEYG102	M. RESISTOR CH 1/16W	*************	+	2
12507.08	1		2	R2903	ERJ3GEY0R00	M. RESISTOR CH 1/16W	1.79	+	1
32509,10	THE OWNER OF THE OWNER OF THE OWNER,	M. RESISTOR CH 1/8W 680						-	1
32511	ERJ3GEYJ562	M. RESISTOR CH 1/16W 5.6K	1	R2904	ERJ3GEYJ104	M. RESISTOR CH 1/16W		-	1
12512	ERJ3GEYJ393	M. RESISTOR CH 1/16W 39K	4	R2905	ERJ3GEY0R00	M. RESISTOR CH 1/16W			<u> </u>
2513,14	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	2	R2906	ERJ3GEYG102	M. RESISTOR CH 1/16W		-	1
R2515-20	ERJ8GEYJ1R0	M. RESISTOR CH 1/8W 1	6	R2907	ERJ3GEYJ104	M. RESISTOR CH 1/16W	100K		1
R2522	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	R2908	ERJ3GEY0R00	M. RESISTOR CH 1/169	0		1]
R2523,24		M. RESISTOR CH 1/16W 180	2	R2909	ERJ3GEYJ103	M. RESISTOR CH 1/16W	10K		1
R2525	ERJ3GEYG471	M. RESISTOR CH 1/16W 470	1	R2911	ERJ3GEYJ103	M. RESISTOR CH 1/16W		1	1
R2526	ERJ3GEYG102	M. RESISTOR CH 1/16W 1K	1	R2912	ERJ3GEYJ104	M. RESISTOR CH 1/16W	u	1	1
R2527	ERJ3GEY0R00	M. RESISTOR CH 1/16W 0	1	R2914	ERJ3GEYG102	M. RESISTOR CH 1/16W	******************	-	1
12361	ELMONE LONGO	M. RESISTOR CH 1/16W 1K	1	R2915	ERJ3GEY0R00	M. RESISTOR CH 1/16M			1
R2528	ERJ3GEYG102								

R2917	3GEYJ184 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ103 3GEYJ303 3GEYJ303 3GEYJ303 3GEYJ303 3GEYJ562 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ103 3GEYJ668 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ563 3GEYJ668 3GEYJ668 3GEYJ668 3GEYJ668 3GEYJ668 3GEYJ668 3GEYJ39 3GEYJ668 3GEYJ66 3GEYJ66 3GEYJ66 3GEYJ66 3GEYJ66	M. RESISTOR CH M. RES		6K 80 0K 80 90 0K 8K 90	1			R64084 R64085 R64086 R64087 R64088, 89 R64090 R64091—93 R64094 R64095 R64095 R64097—02 R64103 R64104 R64105, 06 R64107	ERJ3GEYJ473 ERJ8GEYJ391 ERJ3GEYJ103 ERJ8GEYJ103 ERJ8GEYJ103 ERJ8GEYJ103 ERJ3GEYJ103 ERJ3GEYJ103 ERJ3GEYJ682 ERJ3GEYJ103	M. RESISTOR CH 1/16W M. RESISTOR CH 1/8W M. RESISTOR CH 1/16W	47K 390 10K 390 10K 390 10K 6. 8K 390 47K 390 10K 3. 3 6. 8K 10K 47K 3. 3 10K 3. 3 10K 22K	1 1 2 2 1 1 1 1 2 2 1 1 1 1 2 2 1 1 1 1	2 2 2 3 3 3 3
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R64054, 55 ERJ3GEYJ		M. RESISTOR CH 1,			2		- []			MISCELLANEOUS			
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R64057, 58 ERJ8GEYJ		M. RESISTOR CH			2				VSC4607	SHIELD CASE		-	· · · · · · · · · · · · · · · · · · ·
R64059, 60 ERJ3GEYG	***************************************	M. RESISTOR CH 1,			2		Ш	- 1		SHIELD CASE		1	
	GEYJ391		********************		-				VJF1310	CONNECTOR HOLDER		2	
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R64068 ERJ8GEYJ3	GEYJ391 GEYG682 GEYJ473 GEYJ391 GEYJ473 GEYG682 GEYJ391 GEYJ103	M. RESISTOR CH 1/		0	1								
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■ E16	VEX7793	MOTOR P. C. BOARD	I (RTL)				
		MISCELLANEOUS					
	VJP1230T	3P CONNECTOR	1				
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		LED HOLDED D C DONDO	1 (RTL)		-		
■ E17	VEK8619	LED HOLDER P.C. BOARD	T (AIC)	en control to the second of th		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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■ E18	VEK7726	REEL DRIVE SENSOR P.C.BOA	30 1 (RTL)	******			
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